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Articles and photographs are desired. For material which The Magazine can use, generous remuneration is made.

In addition to the editorial and photographic surveys constantly being made, The Society has sponsored more than 100 scientific expeditions, some of which required years of field work to achieve their objectives.

The Society's notable expeditions have pushed back the historic horizons of the southwestern United States to a period nearly eight centuries before Columbus crossed the Atlantic. By dating the ruins of the vast communal dwellings in that region, The Society's researches have solved secrets that have puzzled historians for three hundred years.

In Mexico, The Society and the Smithsonian Institution, January 16, 1939, discovered the oldest work of man in the Americas for which we have a date. This slab of stone is engraved in Mayan characters with a date which means November 4, 291 B. C. It antedates by 200 years anything heretofore dated in America, and reveals a great center of early American culture, previously unknown.

On November 11, 1935, in a flight sponsored jointly by the National Geographic Society and the U. S. Army Air Corps, the world's largest balloon, *Explorer II*, ascended to the world altitude record of 72,395 feet. Capt. Albert W. Stevens and Capt. Orvil A. Anderson took aloft in the gondola nearly a ton of scientific instruments, and obtained results of extraordinary value.

The National Geographic Society-U. S. Navy Expedition camped on desert Canton Island in mid-Pacific and successfully photographed and observed the solar eclipse of 1937. The Society has taken part in many projects to increase knowledge of the sun.

The Society coöperated with Dr. William Beebe in deep-sea explorations off Bermuda, during which a world record depth of 3,028 feet was attained.

The Society granted $25,000, and in addition $75,000 was given by individual members, to the Government when the congressional appropriation for the purpose was insufficient, and the finest of the giant sequoia trees in the Giant Forest of Sequoia National Park of California were thereby saved for the American people.

The world's largest ice field and glacial system outside the Polar regions was discovered in Alaska by Bradford Washburn while making explorations for The Society and the Harvard Institute of Exploration, 1937-8.

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CONTENTS

Page

Antlered Majesties of Many Lands. 23 illustrations in color from paintings by WALTER A. WEBER 479

At Home on the Oceans: Whales and Sharks Make Exciting Neighbors for a Professor's Wife, Turned Able Seaman, On a Three-year Voyage Around the World. By EDITH BAUER STROUT 33

Australia's Patchwork Creature, the Platypus: Man Succeeds in Making Friends with This Duck-billed, Fur-coated Paradox which Lays Eggs and Suckles Its Young. By CHARLES H. HOLMES 273

Buenos Aires: Queen of the River of Silver. By MAYNARD OWEN WILLIAMS 561

Buenos Aires—Metropolis of the Pampas. 24 illustrations in color from natural color photographs by LUIS MARDEN and MAYNARD OWEN WILLIAMS 577

Carioca Carnival. 34 illustrations in color from natural color photographs by W. ROBERT MOORE 291

Cathedrals of England: An Artist's Pilgrimage to These Majestic Monuments of Man's Genius and Faith. By NORMAN WILKINSON. With 16 pages of dry-point engravings by the author 741

Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By FREDERICK SIMPICH 601

Chesapeake Odyssey: An 18-foot Sailboat Follows the Course of Captain John Smith around This Spacious Bay of History, Commerce, Sea Food, and Nautical Lore. By JOHN MALONEY 357

Corn and Color in the Hawkeye State (Iowa). 20 illustrations in color from natural color photographs; 19 illustrations by J. BAYLOR ROBERTS 151

Deer of the World: As Workers, Pets, and Graceful "Living Statuary" in Parks and Estates, These Versatile Creatures Have Endeared Themselves to Mankind. By VICTOR H. CAHALANE 463

Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By MATTHEW W. STIRLING 183

Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By FREDERICK SIMPICH 415

Estonia: At Russia's Baltic Gate: War Often Has Ravaged This Little Nation Whose Identity Was Long Submerged in the Vast Sea of Russian Peoples. By BARONESS IRINA UNGERN-STERNBERG 803

Europe's Northern Nomads (Lapps). 12 illustrations in color from natural color photographs by JACK KUHNE 657

Floral Garlands of Prairie, Plain, and Woodland. 125 flower paintings by EDITH S. CLEMENTS 224

Flower Pageant of the Midwest: From March to November Nature Embroiders an Ever-changing Pattern of Living Color. By EDITH S. and FREDERIC E. CLEMENTS 219

From Nature's Hidden Building Blocks (Synthetic Products). 26 illustrations in color from natural color photographs by WILLARD R. CULVER 609

Gilded Domes Against an Azure Sky (Iran). 13 illustrations in color from natural color photographs by STEPHEN H. NYMAN 339

Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors 739

Page

Historic Danzig: Last of the City-States. By WILLIAM and ALICELIA FRANKLIN..... 677

Iowa, Abiding Place of Plenty: The State Where the Tall Corn Grows Provides the Nation with a Tenth of Its Food Supply. By LEO A. BORAH..... 143

Life's Flavor on a Swedish Farm: From the Rocky Hills of Småland Thousands of Sturdy Citizens Have Emigrated to the United States. By WILLIS LINDQUIST..... 393

Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By WENDELL and LUCIE CHAPMAN..... 87

Multicolored Cones of Cappadocia. 20 illustrations in color from natural color photographs by ERIC MATSON..... 769

My Four Antarctic Expeditions: Explorations of 1933-39 Have Stricken Vast Areas from the Realm of the Unknown. By LINCOLN ELLSWORTH..... 129

News of the Universe: Mars Swings Nearer the Earth, Sunspots Wane, and a Giant New Telescopic Eye Soon Will Peer Into Unexplored Depths of Space. By F. BARROWS COLTON..... 1

Nomads of Arctic Lapland: Mysterious Little People of a Land of the Midnight Sun Live Off the Country Above the Arctic Circle. By CLYDE FISHER..... 641

Old and New in Persia: In This Ancient Land Now Called Iran a Modern Sugar Factory Rears Its Head Near the Palace of Darius the Great. By THE BARONESS RAVENSDALE 325

Puerto Rico: Watchdog of the Caribbean: Venerable Domain Under American Flag Has New Role as West Indian Stronghold and Sentinel of the Panama Canal. By E. JOHN LONG..... 697

Puerto Rico Polychromes. 23 illustrations in color from natural color photographs by EDWIN L. WISHERD..... 713

Riatas and Romance on the Rio Grande. 24 illustrations in color from natural color photographs; 23 illustrations by LUIS MARDEN..... 431

Rio Panorama: Breath-taking Is This Fantastic City amid Peaks, Palms, and Sea, and in Carnival Time It Moves to the Rhythm of Music. By W. ROBERT MOORE..... 283

Society's New Map of Central Europe and the Mediterranean. Text accompanying special map supplement in colors..... 559

Solar System's Eternal Show. 10 illustrations in color from paintings by CHARLES BITTINGER..... 17

Stalking Big Game with Color Camera. 28 illustrations in color from natural color photographs by WENDELL CHAPMAN..... 89

War Clouds Over Danzig and Poland's Port (Gdynia). 8 illustrations from photographs.. 551

We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eight Months' Study. By DR. JEAN VERHOOGEN..... 511

Where Early Christians Lived in Cones of Rock: A Journey to Cappadocia in Turkey Where Strange Volcanic Pinnacles Are Honeycombed With Hermit Cells and Monasteries. By JOHN D. WHITING..... 763

Wings Over Nature's Zoo in Africa. 20 illustrations in duotone from photographs by REGINALD A. BOURLAY..... 527

World That Rims the Narrowing Atlantic: Latest Ten-color Map Supplement Shows Four Continents and New Transatlantic Air Routes Which Make This Ocean Only One Day Wide. By JAMES M. DARLEY. Text accompanying special map supplement in colors.. 139

XUM

INDEX FOR VOL. LXXVI (JULY-DECEMBER), 1939

July	pp. 1–142	October	pp. 415–560
August	pp. 143–282	November	pp. 561–696
September	pp. 283–414	December	pp. 697–834

Page

A

A Noite (newspaper): Building 284, 315
Abacus, Iranian counting on an ..... ill. 349
Abbas I 325, 334, 335, 336, 347
Abbot, (Dr.) Charles G. 25
Abdim's storks: Africa ..... duotone plate IV, page 530
Aberdeen Angus (cattle) 589
Aberdeen Proving Ground, Maryland 386
Abisko, Sweden 649, 667, 668, 669
Abisko Hotel, Abisko, Sweden 646
Abutilon theophrasti. See *Velvet leaf.*
Acacias: Brazil 301
Academy Bay, Galápagos Islands 36
Academy of Fine Arts, Rio de Janeiro ..... 288; color plate XXI, page 319
Acanthaceae. See *Acanthus family.*
Acanthus family 240
Acetate rayon 624
Acetic acid ..... 624; color plate XVI, page 640
Achaemenian Empire 335
Achaemenian palaces: Iran 326
Acheron (ship) 53
Achiote (seed): Puerto Rico 708
Acids, Synthetic 632
Acre, Palestine 764
Acts of St. Hieron (document) 773
Adana, Turkey 765
Adder's-tongue
  White ..... 266; color plate XXII, page 267
  Yellow ..... 266; color plate XXII, page 267
Aden ground sloth, Mummy of: New Mexico 419
Adjuntas, Puerto Rico 728
Administration Building, Iowa University ..... 164; color plate I, page 151
"Admiral" (mascot, *Tralee*) 371, 373, 375
Adobe buildings: New Mexico 424
Aëdes (*Stegomyia*) *aegypti* (mosquito) 306
Aeronautics: My Four Antarctic Expeditions: Explorations of 1933–39 Have Stricken Vast Areas from the Realm of the Unknown. By Lincoln Ellsworth. 9 ills., 1 page map, July 129–138
Africa
  We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eight Months' Study. By Dr. Jean Verhoogen. 28 ills., 1 two-thirds-page map, Oct. 511–550
  Wings Over Nature's Zoo in Africa. 20 ills. in duotone from photographs by Reginald A. Bourlay. Oct 527–542
Aga Mohammed Shah 327
Agricultural Experiment Station, Puerto Rico ..... 712, 723; color plate III, page 715
Agricultural Substation, Puerto Rico: Papayas ..... ill. 711
Agriculture
  Application of synthetic chemistry 632
  Ascension Island 85
  Belgian Congo ..... ill. 524
  Estonia 803, 816–817, 818
  Forest Lapps engage in 650
  Iowa ..... 143, 150, 161, 179; ill. 145; color plate XVI, page 174
  Puerto Rico ..... 709, 721, 722–723, 728, 737; ill. 711, 723, 725; color plates III, page 715; VI, page 718; VII, page 719; XII, page 732
Agriculture and Mechanic Arts, College of, Mayagüez, Puerto Rico 712, 722
Aguadilla, Puerto Rico 721
  Workshop in ..... color plate V, page 717
Aguardiente (beverage) 208
Aibonito, Puerto Rico 737
Air: Source of chemicals 601, 603
Air-conditioning, Chemical 628
Air routes: North and South Atlantic Ocean 139
Airplane factory: Kayseri, Turkey 767, 778

Page

Airplanes
  Estonia 807, 809
  Lincoln Ellsworth's ..... ill. 130, 131, 136
  Plane flying over Victoria Falls ..... duotone plate X, page 536
  Plane spraying tobacco plants ..... ill. 626
  Puerto Rico ..... 697, 704, 721, 727; air views 699, 700; ill. 701
  Rio de Janeiro ..... 289; ill. 302
  Salt for deer dropped from 464
  U. S. Coast Guard ..... 453; air view 422
  Yankee Clipper ..... ill. 141
Airports
  Puerto Rico ..... 697, 698, 709, 714, 721, 727; air view 700
  Rio de Janeiro ..... 288, 289; ill. 302; color plate XXII, page 320
Akavare (mountain), Sweden 665
Akeley, Carl (sculptor) 514
Akka (mountain), Sweden. See *Akavare.*
Alamos Canyon, Mexico 430
Alamosa, Colorado 417–418
Alaska, Reindeer introduced into 466, 481, 482
Albania 140, 560
Albatrosses: New Zealand ..... 56; ill. 46
Albert (Belgian king) 292, 299
Albert, Lake, Belgian Congo-Uganda 512
Albert National Park, Belgian Congo 511, 513, 515, 524
Albuquerque, New Mexico 418, 419, 424
Alces americana shirasi. See *Moose, Shiras.*
Alces gigas. See *Moose, Alaska.*
Alcohols
  Obtained from molasses 737
  Synthetic 601, 602, 607, 632
Alep (Aleppo), Levant States 791
Alert (ship) 363
Alexander I (Russian czar) 559, 816
Alexander the Great 765
Alexandretta, Gulf of 765, 769
Alexandretta (İskenderon), Turkey 560
Alga: Cause of "red snow" 665–666
Ali Dag (mountain), Turkey ..... ill. 778
Ali Kapi, Isfahan, Iran 334
Allenby, (Viscount) Edmund 764
Allium acuminatum. See *Onion, Pink.*
Allium cernuum. See *Onion, Nodding.*
Allium vineale (field onion) 264
Alloys in synthetic chemistry 603
Alma (brig) 356
Alms box, Öjaby Church, Sweden ..... ill. 407
"Alnico" (magnet alloy) 630
Aloe (plant): Puerto Rico 722, 728
Alpine, Texas 428, 430, 461
Alpine staff marking grave: Lapland ..... ill. 643
Alps, Australian ..... 273, 274; ill. 276
Alvarado, Pedro de 188, 189, 739
Alvarado, Mexico ..... 188, 192; ill. 189
Alvear Palace Hotel, Buenos Aires ..... 573; ill. 571
Alwand Mountain, Iran ..... ill. 332
Amana, Iowa 160
Amana Society: Iowa 160
  Children ..... color plate XI, page 169
'Amaq tribesmen: Iran 351
Amarella (plant) 234
Amaryllidaceae. See *Amaryllis family.*
Amaryllis family 268
Amber, Synthetic: Perfume bottle made of ..... color plate II, page 610
Ambrose Channel, New York harbor 86
American Chemical Society 631
American Clippers (airplanes) 139
American Fur Company 181
American Gothic (painting) 161
"American Highland," Antarctica 132, 137
American Museum of Natural History, New York City 641, 676
American Railroad of Puerto Rico: Terminus ..... ill. 701
Ames, Iowa 150, 159
  State College ..... color plate XII, page 170

Page

Ammonia 15, 607
Amorpha, Purple ..... 247; color plate XII, page 246
Amorpha canescens. See *Amorpha, Purple.*
Amulets, Camphor cakes used as 608
Amundsen, Roald 74
Analipsis Church: Turkey: Fresco . . color plate VIII, page 776
Anchor hawser: Mariners' Museum, Newport News ..... 358; ill. 363
Andromeda (galaxy) 29–30
Anegada Passage, Virgin Islands 740
Anemometer: Weather Bureau: Puerto Rico 706
Anemone ..... 225; color plate I, page 224
  Rue ..... 225; color plate I, page 224
Anemone caroliniana. See *Anemone.*
Anesi, José 573
Anglo-Estonian Society 834
Anita Bay, New Zealand 51
Ankole cattle: Ruanda ..... ill. 544
Anna (Swedish farm girl) ..... ill. 413
Annapolis, Maryland ..... 391; air view 384
Antakya, Hatay 560
Antarctic region: My Four Antarctic Expeditions: Explorations of 1933–39 Have Stricken Vast Areas from the Realm of the Unknown. By Lincoln Ellsworth. 9 ills., 1 page map, July 129–138
  Aerial survey made by Germany 132, 138
  Flying conditions 129–130, 136
  Geology ..... 130, 138; ill. 133
  Territory claimed by Ellsworth 129, 131, 137
  Topography 131, 137, 138
Antelopes
  American. See *Pronghorns.*
  Belgian Congo 511, 515
  Sable: Mozambique ..... duotone plate I, page 527
  Texas 428
Anthills: Australia ..... 63; ill. 64, 65
Anthrax (disease) 477
Antioch (Antakya, Hatay) 560
Antlered Majesties of Many Lands. 23 ills. in color from paintings by Walter A. Weber. Oct. . . . 479–510
Antlers, Deer . . . . 87, 104, 463, 481; ill. 117, 465, 466, 467, 473, 480; color plates I, page 89; II, page 90; VI, page 94
Anvil, Stone: Africa ..... ill. 544
Apaches (Indians) 427
Apartment houses
  Buenos Aires ..... 576; ill. 563
  Copacabana . . . 290; ill. 287; color plate XIX, page 317
  Gdynia, Poland ..... ill. 558
  Rio de Janeiro . . . . color plates VII, page 297; XXIII, page 321
  Santurce, Puerto Rico ..... ill. 699
Apia, Western Samoa 44
Apocynaceae. See *Dogbane family.*
Apocynum androsaemifolium. See *Dogbane, Pink.*
Apricot orchards: Turkey . . . 777; color plates V, page 773; XI, page 795; XIV, page 798
Aquarids (meteors) 14
Aqueduct: Rio de Janeiro ..... ill. 285
Aquilegia canadensis. See *Columbine, Red.*
Arapsun, Turkey 777
Arbutus, Trailing ..... 255; color plate XVI, page 254
Arch over shafts of harness: Estonia ..... ill. 822, 824
Archeology
  Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. 183–218
  Iran ..... 354; ill. 328, 352, 353, 354
  Where Early Christians Lived in Cones of Rock: A Journey to Cappadocia in Turkey Where Strange Volcanic Pinnacles Are Honeycombed With Hermit Cells and Monasteries. By John D. Whiting. 20 ills. in black and white, 20 ills. in color, 1 half-page map, Dec. 763–802
Arches, Inverted: Wells Cathedral . . gravure plate VI, page 750
Architecture
  Cathedrals of England: An Artist's Pilgrimage to These Majestic Monuments of Man's Genius and Faith. By Norman Wilkinson. 3 ills. in black and white, 16 ills. in gravure from dry-point engravings by the author, Dec. 741–762
  Danzig . . . . 677, 678; ill. 679, 682, 685, 688, 689, 690, 691, 694
  Seljuk: Kayseri, Turkey 767
Arctic region: Nomads of Arctic Lapland: Mysterious Little People of a Land of the Midnight Sun Live Off the Country Above the Arctic Circle. By Clyde Fisher. 28 ills. in black and white, 12 ills. in color, 1 page map, Nov. 641–676
Ardistan, Iran 336
Arecibo, Puerto Rico 721
Argaeus, Mount, Turkey . . . . 766, 767, 789, 792, 799; color plate II, page 770

Page

Argentina. See *Buenos Aires.*
Argentina (ship) 575
Argentine Automobile Club 562
Argentine Declaration of Independence 562, 577
Argentine Rural Society, Show grounds of: Buenos Aires 592
Argonaut First (submarine) 363
Armadillos: Del Rio, Texas 440
Armistead, (Gen.) George: Statue of ..... ill. 392
Army Air Base, Puerto Rico 697, 721
Arnold, Matthew 328
Arroyo, Puerto Rico 737
Arroyos: New Mexico ..... air view 451
Art Museum, St. Louis, Missouri 16
Artushof (Guild Hall), Danzig ..... 689; ill. 694
Ascension, H. M. S. (former name of Ascension Island) 85
Ascension Island, Atlantic Ocean . . 85, 86; ill. 76, 82, 83
Ashford, (Col.) Bailey K. 705
Aspens (trees)
  Rio Grande, Colorado ..... ill. 421
  Rocky Mountains . . 100, 116, 117; color plate XIII, page 109
Asphalt 620
Aspiring, Mount, New Zealand 51
Aster
  Common 260
  New England ..... 260; color plate XIX, page 261
  Smooth ..... 260; color plate XIX, page 261
Aster chilensis. See *Aster, Common.*
Aster family 256
Aster laevis. See *Aster, Smooth.*
Aster novae-angliae. See *Aster, New England.*
Aster novi-belgii (aster) 260
Asteraceae. See *Aster family.*
Asteroids 2, 8
Astragalus adsurgens. See *Vetch, Purple milk.*
Astragalus crassicarpus. See *Ground plum.*
Astragalus mollissimus. See *Locoweed, Purple.*
Astronomers, Amateur ..... 1; ill. 4
Astronomy
  News of the Universe: Mars Swings Nearer the Earth, Sunspots Wane, and a Giant New Telescopic Eye Soon Will Peer Into Unexplored Depths of Space. By F. Barrows Colton. 23 ills. in black and white, 10 ills. in color, July . . . 1–32
  Solar System's Eternal Show. 10 ills. in color from paintings by Charles Bittinger. July 17–24
Asunción, Argentina 561
At Home on the Oceans: Whales and Sharks Make Exciting Neighbors for a Professor's Wife, Turned Able Seaman, On a Three-year Voyage Around the World. By Edith Bauer Strout. 54 ills., 1 map, July 33–86
Ateneo (building), San Juan, Puerto Rico 705
Athenaeum, Boston, Massachusetts 16
Athi plains, Kenya ..... duotone plate XVI, page 542
Atlantic Ocean 57, 75, 76
  World That Rims the Narrowing Atlantic: Latest Ten-color Map Supplement Shows Four Continents and New Transatlantic Air Routes Which Make This Ocean Only One Day Wide. By James M. Darley. 1 ill., July 139–142
Atlantis (legendary island) 140
Atmosphere
  Earth 7
  Mars 15
Atoms 1, 5
Attila: Defeated at Châlons-sur-Marne 559
Auckland, New Zealand 51
Augustus (ship) 575
Austerlitz, Moravia 559, 560
Australia ..... 57, 59, 62, 66, 69, 272, 300; ill. 64, 65
  Acquisition of *Wyatt Earp* 138
  Aid given to Lincoln Ellsworth 131, 136
Australia (schooner) ..... ill. 356
Australia's Patchwork Creature, the Platypus: Man Succeeds in Making Friends with This Duck-billed, Fur-coated Paradox which Lays Eggs and Suckles Its Young. By Charles H. Holmes. 13 ills., Aug. 273–282
Austria 140
Automobiles
  Christmas Island ..... ill. 68
  Danzig-Polish boundary ..... ill. 556
  Improvements made by chemistry 629, 632
  Iran ..... 325; ill. 327
  Laredo, Texas ..... color plate XVI, page 462
  New York World's Fair ..... ill. 606
  Rio de Janeiro carnival car . . . color plate XVI, page 314
  Rio Grande, Texas: Automobile with pontoons . ill. 452
  Sweden: Småland Province 393
  Turkey: John Whiting's . 763, 801; ill. 764, 778, 781, 782
Autumn glory (plant) 260
Autumn sun (plant) 260
Avanos, Turkey ..... color plate XV, page 799
Avellaneda, Argentina ..... color plate V, page 581
Avenida Alvear, Buenos Aires 563, 576

XUM

Page

Avenida Atlantica, Rio de Janeiro . . . color plate VII, page 297
Avenida Beira Mar, Rio de Janeiro . . 284, 290, 304; ill. 286
Avenida de Mayo, Buenos Aires . . . 563, 565, 573, 586; color plate I, page 577
Avenida Las Heras, Buenos Aires . . . 592
Avenida 9 de Julio, Buenos Aires . . . 563, 586, 587
Avenida Oswaldo Cruz, Rio de Janeiro . . color plate XXIII, page 321
Avenida Rio Branco, Rio de Janeiro . . . 284, 285, 288, 304–305, 323, 324; ill. 284, 303; color plates XIII, page 311; XVII, page 315
Avenida Roque Sáenz Peña, Buenos Aires . . . ill. 567
Aviation: Importance of winds . . . 142
Axis deer . . . 501; color plate XII, page 502
Ayrshire heifer: Iowa State Fair . . . ill. 181
Azores (islands), Atlantic Ocean . . . 139, 141

B

Bachman, (Dr.) G. W. . . . 705, 706
Back Creek, Maryland . . . 378
Badger Creek Sanctuary, Healesville, Australia . . . 275
Badgers, Pet: Nevada . . . color plate XVI, page 112
Baekeland, (Dr.) L. H. . . . 619
Bagdad, Mexico: Cotton running during Civil War . . 454
Bagging salt: Puerto Rico . . . ill. 711
Bahama Islands, West Indies . . . 33, 86
Bailey, Vernon (naturalist): Photograph of . . . ill. 119
"Bakelite" (plastic) . . . 617, 619
Bakery wagon: Buenos Aires . . . color plate XIII, page 597
Balboa, Vasco Nuñez de . . . 739
Balleny Reef, New Zealand . . . 55
Balsaminaceae. See *Touch-me-not family.*
Baltic Sea . . . 551, 553, 677, 681, 696, 803
Baltimore, Maryland . . . 386–387; air view 383; ill. 385, 390, 392
  Canning factory . . . ill. 388
  Darkies eating watermelons . . . ill. 387
Baluchis: Iran . . . 347, 351
Bamboo
  Belgian Congo . . . 524
  Rio de Janeiro . . . 299
"Banana da Terra" (Brazilian movie) . . . 288
Bancroft Hall, U. S. Naval Academy . . . air view 384
Bandar Shah, Iran . . . 325, 337
Bandonéon (musical instrument) . . . 586; ill. 565
Banff National Park, Canada: Man feeding moose . ill. 476
Bank of the Nation, Buenos Aires . . . color plate VI, page 582
Baobab trees: Christmas Island . . . ill. 68
Baptisia australis. See *Wild indigo, Blue.*
Baptisia leucophaea. See *Wild indigo, Yellow.*
Barasingha (deer) . . . 496–497; color plate IX, page 495
Barbados (island), West Indies . . . 86, 723
  Hauling molasses . . . ill. 84
Barbecues: Argentina . . . 571, 572
Barbecuing pig: Puerto Rico . . . ill. 708
Barber of Seville (opera) . . . 592
Barbs, *Criollo* horses descendants of: Argentina . . . 571
Barges: Mississippi River . . . color plate VII, page 157
"Barking deer" (Indian muntjac) . . . 505, 506
Barnegat, New Jersey . . . 469
Barnegat Pete (pet deer) . . . ill. 469
"Barney Google" (comic strip) . . . 585
Barns
  Iowa . . . color plate IV, page 154
  Sweden . . . 393, 409; ill. 408
Barranca (section), Buenos Aires . . . 590
Barrel post office: Galápagos Islands . . . ill. 44
Barron, (Com.) James . . . 363
Bartholomew Island, Galápagos Islands . . . 35
Baseball stadium: San Juan, Puerto Rico . . . 707
Baskets
  Basket woven from pandanus: Marquesas Islands . . 39
  Made from yarey palm: Puerto Rico . color plate V, page 717
Basque market porters: Buenos Aires . . . 571
Basque milkmen: Buenos Aires . . 571; color plate XV, page 590
Bathhouses: Mar del Plata, Argentina . . . ill. 568
Bathing beauty, "Miss Brazil" . . . color plate VII, page 297
Bathing suits of synthetic materials . . . color plate IV, page 612
Bathurst, Gambia . . . 139
Batussi (tribespeople). See *Watussi.*
Bauxite . . . 605
"Bay-ice": Antarctica . . . 136; ill. 130
Bay of Islands, New Zealand . . . 51
Bayamón, Puerto Rico . . . 721
Bayazid: Tomb of . . . color plate VIII, page 346
Bazaars
  Iran . . . 335, 344
  Kayseri, Turkey . . . 707
Beach umbrella of synthetic materials . . . color plate IV, page 612
Beaches
  Buenos Aires . . . color plate IV, page 580

Page

Beaches (Cont.)
  Estonia . . . 809, 825
  Rio de Janeiro . . . 284, 290; ill. 287; color plates I, page 291; VI, page 296; VII, page 297; XIX, page 317
Bean, (Judge) Roy . . . 439, 446
Bean, Windsor . . . 249
Bear den used for darkroom . . . 88
Beardmore Glacier, Antarctica . . . 130
Bears
  Bear treed by doe . . . 476
  Black: Rocky Mountains . . . 88, 97, 113; ill. 101, 103; color plate IV, page 92
  Grizzly: Rocky Mountains . . . 113–116
Beautiful Ohio (song) . . . 415
"Beauty de Berghes" (mare) . . . color plate XVI, page 174
Beauty salons: Rio de Janeiro . . . 288
Beaver dams: Colorado . . . ill. 421
Beaverhead National Forest, Montana . . . 88
Beavers: Colorado . . . 416
Bedford, Duke of . . . 504
Beds
  Carved from rock: Turkey . . . 792; ill. 779, 787
  Folding: Sweden . . . 396
Beebe, (Dr.) William . . . 140
Beef tenderized by ultraviolet rays . color plate XI, page 635
Bees
  Pollination of plants . . 224, 238, 242, 249, 256, 268, 271
  Stingless . . . 203
Beetle grub attacks sugar cane: Puerto Rico . . . 723
"Beetleware" (plastic) . . . 617
Beggar-ticks . . . 262
Bel Kilise (volcanic cone): Turkey . . . ill. 788
Belgian Congo: We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eight Months' Study. By Dr. Jean Verhoogen. 28 ills., 1 two-thirds-page map, Oct. . . . 511–550
"Bell" (throat pendant of moose) . . color plate III, page 91
Bell tower: Sweden: Småland Province . . . ill. 406
Bellas Artes, Rio de Janeiro . . 288; color plate XXI, page 319
Bellbird: New Zealand . . . 56
Belle, West Virginia: Nitrate plant . . . 607
Bellows, Native: Africa . . . ill. 544
Bells, Church, rung by foot: Rydaholm, Sweden . . . 398
Bells worn by Lapp children . . . ill. 666
Bellwort . . . 266; color plate XXII, page 267
  "Large-flowered" . . . 266
  "Sessile-leaved" . . . 266
Benld, Illinois, Meteorite which fell in . . . ill. 32
Bentonite clay . . . 626
Bergamot, Wild . . . 242; color plate X, page 243
Bergström, Erik . . . 641, 648, 653
Berkeley Castle, England . . . 744
Bermuda Islands, Atlantic Ocean . . . 141, 740
Berries: Sweden . . . 395
Betelgeuse (star) . . . color plate VIII, page 24
Bethlehem Steel Plant, Sparrows Point . . . ill. 382
Betterton, Maryland . . . 378
Betty Boop (cartoon character) . . . 585
Beverages
  Argentina: Yerba maté . . . 586, 587; color plates VIII, page 584; XI, page 595
  Lapland: Coffee drinking . . . 648, 652, 653, 656
  Turkey: Coffee drinking . . . 802; ill. 783
Beyrouth, Levant States . . . 763, 764
Biblical references . 763, 764, 765, 766, 768, 779, 783, 791
Bicycles: Sweden: Småland Province . . . 393, 404, 405
Bidens involucrata. See *Tickseed.*
Biela's comet, Destruction of . . . 11
Big Dipper (constellation) . . . 561
Bighorns (sheep): Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July . . . 87–128
"Billabongs" (ponds): Darwin, Australia . . . 63
Billiard ball, Imitation ivory . . . 617
Bindweed
  Hedge . . . 238
  Small . . . 238; color plate VIII, page 239
Binker (boat) . . . 389, 391
Binoculars used to locate game . . . 118, 119
Biological specimens preserved in resin . . . color plate II, page 610
Birch, Furniture and plywood made from: Estonia . . . 818
Birds
  Argentina . . . 572
  Ascension Island . . . 85; ill. 83
  Australia . . . 63
  Buenos Aires: Bird vender . . . ill. 573
  Buenos Aires: Zoo . . . color plate XII, page 596
  Caribbean Sea . . . ill. 84
  Dassen Island, South Africa . . . 81; ill. 72
  Galápagos Islands . . . 35; ill. 41
  Gulf of Mexico . . . color plate VIII, page 438
  Mexico . . . 194; ill. 193

Page

Birds (Cont.)
Mississippi Valley ... 176; ill. 148
New Zealand ... 55, 56
South Pacific Ocean ... 56; ill. 46
Sweden ... 412
Bisitun, Iran: Rock carvings ... 354; ill. 353
Bison: Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July ... 87–128
Bison head, Bronze: Council Bluffs railway bridge ... ill. 182
Bitterroot ... 232
Bittersweet ... 236
Bittinger, Charles
Paintings by ... 16
Solar System's Eternal Show. 10 ills. in color from paintings by Charles Bittinger. July ... 17–24
Black-eyed Susan ... 256, 260; color plate XIX, page 261
Black Hawk (Indian chief) ... 164–165
Black Hawk Lake, Iowa ... 180
Black Hawk Purchase ... 145
Black Hawk War ... 145, 175
Black Prince, Relics of: Canterbury Cathedral ... 741
Blackfish: Pacific Ocean ... 38; ill. 48
Blacksmith, Native: Africa ... ill. 544
"Blacktails." See *Mule deer.*
Blanket worn by pet deer ... ill. 469
Blashfield, Edwin H. (artist) ... 171
Blastocerus bezoarticus. See *Pampas deer.*
Blastocerus dichotomus. See *South American marsh deer.*
Bligh, (Capt.) William ... 732
Blood corpuscles of sheep used in color filter ... 631
Blood fluke: Puerto Rico ... 705
Bloodroot ... 227; color plate II, page 226
Bloody Point, Kent Island ... 376, 378
Bloomer, Amelia Jenks ... 177
"Blow the Man Down" (song) ... 360
"Blue boneset" ... 258
Blue-eyed grass ... 268; color plate XXIII, page 269
Blue-flag iris ... 268
Bluebell ... 255; color plate XVI, page 254
Bluebell family ... 255
Bluefish: Guanabara Bay ... 294
Bluff (Campbelltown), New Zealand ... 56, 57
"BMT" (New York subway) ... 587
Boar hunt carvings: Tak-i-Bostan, Iran ... 354; ill. 354
Boatbuilding
Boat built for world cruise ... 33; ill. 34, 35, 36, 37, 47, 59, 60, 64, 71, 76
Log canoes: Virginia ... 357, 358
Solomons Island ... 391
Boats
Argentina: Fruit venders' boats, color plate XVI, page 600
Buenos Aires harbor: Pilot boat ... color plate III, page 579
Chesapeake Bay ... 373, 375, 389; air view 380; ill. 356, 368, 369, 377, 381
Fiji Islands: Toy ... ill. 57
Folding canvas boat ... 97
Galápagos Islands ... 35
Iowa ... color plate X, page 168
Lake Kivu, Africa ... ill. 519, 525
Rio de Janeiro ... 290; color plate IV, page 294
S. S. *Uruguay*: Lifeboats ... color plate II, page 578
Samoa Islands ... 44; ill. 52
Sweden: Finnish ... 641, 674
Thursday Island ... 63
See also *Voyages.*
Boatswain-birds: Christmas Island ... 66
"Bob Ford's Dance Hall," Creede, Colorado ... 416
Bobcats: Texas ... 454
Boca (district): Buenos Aires ... 561, 576; ill. 588
Boca San Miguel, Mexico ... 194
Bodkin Point, Maryland ... 389
Bohemia (German protectorate) ... 140, 560
Bolas, Pampas deer captured with ... 493, 494
Boleadoras: Argentina ... 571, 572, 592; ill. 590, 591; color plate XI, page 595
Boleadoras (Orion's Belt) ... 592
Bolívar, Simón ... 584
Bolivia-Paraguay boundary dispute ... 140
Bologna, Dutch-made: Iowa ... color plate V, page 155
Boltonia ... 260; color plate XIX, page 261
Boltonia asteroides. See *Boltonia.*
Bombillas, Silver (tubes for drinking maté) ... 586; color plates VIII, page 584; XI, page 595
Bonaparte, Napoleon ... 77, 81, 85, 288, 330, 559, 560, 678, 689
Bone meal by-product of packing houses: Argentina ... 573
Boobies, Brown: Caribbean Sea ... ill. 84
Booge, James E. ... 181
Boone, Iowa ... 179
Boots, Lapp ... 653, 654, 666; color plates I, page 657; VIII, page 664

Page

Boquerón, Puerto Rico ... 708, 711, 728
Boquillas, Mexico ... 430
Boquillas Canyon, Rio Grande, Texas ... 430
Bora-Bora (island), Society Islands ... 43
Boy of ... ill. 54
Borage family ... 236
Boraginaceae. See *Borage family.*
Borah, Leo A.: Iowa, Abiding Place of Plenty: The State Where the Tall Corn Grows Provides the Nation with a Tenth of Its Food Supply. By Leo A. Borah. 15 ills. in black and white, 20 ills. in color, 1 two-page map, Aug. ... 143–182
Borinquen, Point, Puerto Rico ... 697
Boston Stump (cathedral), Boston, England, gravure plate III, page 747
Botafogo Bay, Rio de Janeiro ... 284, 290, 300; ill. 286; color plates VI, page 296; XXIII, page 321
Botanic Gardens, Buenos Aires ... 592
Botanical Gardens, Rio de Janeiro ... 299
Botany
Floral Garlands of Prairie, Plain, and Woodland, 125 flower paintings by Edith S. Clements. Aug. ... 224–270
Flower Pageant of the Midwest: From March to November Nature Embroiders an Ever-changing Pattern of Living Color. By Edith S. and Frederic E. Clements. 1 ill. in black and white, 125 flower paintings, Aug. ... 219–271
Bothwell, Earl of ... 401
Bots (larvae of botfly) ... 477
Botwood, Newfoundland ... 139
Bougainvillea: Puerto Rico ... color plate III, page 715
Boulders, Glacial: Antarctica ... 138; ill. 133
Bouncing Bet (plant) ... 232; color plate V, page 233
Bounty (ship) ... 732
Bourlay, Reginald A.: Wings Over Nature's Zoo in Africa. 20 ills. in duotone from photographs by Reginald A. Bourlay. Oct. ... 527–542
"Bow and Arrow Combat" (dance) ... ill. 548
Boxer Rebellion ... 504
Boxwood: Argentine ranch ... 572
Boyd (ship) ... 51
Bradbury, John ... 219
Bradford, Iowa ... 177
Brassicaceae. See *Mustard family.*
Brazil ... 139
See also *Rio de Janeiro.*
Brazil (ship) ... 575
Bread and bread making
Iran ... ill. 355
Tallinn, Estonia ... ill. 823
Breadfruit
Men preparing: Marquesas Islands ... ill. 52
Puerto Rico ... color plate XII, page 732
Breaksea Island, New Zealand ... 55
Breaksea Sound, New Zealand ... 55
Brett, Cape, New Zealand ... 51
Brewster County, Texas ... air view 417; color plate X, page 456
Brick and tile plants: Iowa ... 177
Bride and groom: Tres Zapotes, Mexico ... ill. 218
Bridge, Joe (Texas ranger) ... ill. 446
Bridger Lake, Wyoming ... 87, 88, 102
Bridges
Chesapeake City, Maryland ... 378; ill. 379
Des Moines, Iowa ... 150
Iowa-Nebraska ... 182; ill. 182
Laredo, Texas ... 431, 457; ill. 416; color plate I, page 431
Pecos River ... ill. 442
Puerto Rico ... 709
Rio de Janeiro: Aqueduct ... ill. 285
Tartu, Estonia ... 820; ill. 823
Bridle decoration on milkman's horse: Buenos Aires color plate XV, page 599
Brisbane, Australia ... 57, 62
Bristles
Made from "Nylon" ... 603; color plate XI, page 635
Pig ... 603
Bristol View, Colorado ... 421
British Clock Tower, Buenos Aires ... 562; ill. 569
British East India Company: Saint Helena ... 85
British Royal Antarctic Research Society ... 131
Broadloom rugs: Puerto Rico ... 721
Brocket (deer) ... 492
Brown ... 492; color plate VII, page 491
Red ... 492; color plate VII, page 491
Brolgas (birds): Australia ... 63
Bromeliads (plants): Paquetá Island ... color plate XXIV, page 322
Bronzes, Luristan ... 327
Brooklyn, Iowa ... 181
Brown, (Adm.) Guillermo ... 564
Brown, John ... 166
Brownsville, Texas ... 454
Brush salesman: Rio de Janeiro ... ill. 300
Brussels, University of ... 511
Bryce, (Viscount) James ... 592
Bubble sextant, Officer of *Yankee Clipper* using ... ill. 2

Page

Buchanan, James ... 150
Buckwheat family ... 232
Budweis, Bohemia ... 560
Buena Vista College, Storm Lake, Iowa ... 160
Buenos Aires, Argentina ... 139
  Buenos Aires: Queen of the River of Silver. By Maynard Owen Williams. 22 ills. in black and white, 24 ills. in color, 1 half-page map, Nov. 561–600
  Cosmopolitan character ... 571, 575, 576, 585, 592
  Harbor and shipping ... 561, 574–576; ill. 566, 572, 574, 588; color plates III, page 579; V, page 581
  History ... 561–562, 574, 590
  Imports and exports ... 574, 575; ill. 572, 574
  Parks ... 563, 585, 592; color plates I, page 577; VI, page 582; IX, page 593; X, page 594; XIII, page 597; XIV, page 598
  Recoleta Cemetery ... 564; ill. 569
  Sports and games ... 563–564, 591
  Statues and monuments ... 561, 562, 563, 564, 597; ill. 567, 569; color plates X, page 594; XIII, page 597
  Zoo ... 591–592; ill. 575; color plate XII, page 596
Buenos Aires—Metropolis of the Pampas. 24 ills. in color from natural color photographs by Luis Marden and Maynard Owen Williams. Nov. 577–600
Buenos Aires Herald (newspaper) ... 585
Buffalo, American. See *Bison.*
Buffaloes, African: Mozambique ... duotone plates V, page 531; VII, page 533
"Bufo frog": Puerto Rico ... 723
Bufo marinus, Linné. See *"Bufo frog."*
Bugeye (boat): Chesapeake Bay ... 373, 375; air view 380
Buggy (carriage): Högakull farm, Sweden ... ill. 405
Buhoro Flats, Tanganyika ... duotone plates III, page 529; XIV, page 540; XVI, page 542
Bumann, H. O. ... ill. 34
"Bump gates": Texas ... 440; ill. 441
"Buna" rubber made in Germany ... 632
Burdette, Bob ... 166
Burlington, Iowa ... 164, 166
"Burro deer" (mule deer) ... 488
Buses
  Estonia ... 819
  Iran ... 326; ill. 333
  Rio de Janeiro ... ill. 303
  San Juan ... 705; color plate X, page 730
Bustam, Iran ... 338; color plate VIII, page 346
Butler, Ellis Parker ... 166
Butter-and-eggs (plant) ... 238; color plate VII, page 239
Butterballs (flower) ... 641, 669
Buttercup family ... 225, 238
Buttercups
  Rocky Mountains ... 88
  Sweden ... 669; ill. 649
Butterfly flower ... 236
Butterfly net: Lake Kivu ... ill. 516
Buttons, Manufacture of: Muscatine, Iowa ... 166; ill. 176
By the Waters of Minnetonka ... 162
Byzantine ruins: Turkey ... 791

C

Caballo Dam, New Mexico ... 426
Cabildo (building): Buenos Aires ... 563, 572
Cabin John Creek, Maryland ... 378
Cable car, Aerial: Sugar Loaf Peak, Rio de Janeiro 290, 291
Cable stations
  Ascension Island ... 85; ill. 82
  Cocos Islands ... 69
  Rodriguez Island ... 80
Cabot, Sebastian ... 561
Cabral, Pedro A. (navigator) ... 299
Cacao pod: Puerto Rico ... ill. 723
Cactaceae. See *Cactus family.*
Cactus
  Prickly pear: Texas ... color plate XII, page 458
  Puerto Rico ... 728
  Purple ... 253; color plate XV, page 252
  Turk's-cap: Puerto Rico ... color plate XV, page 735
Cactus family ... 253
Caesar, Julius ... 463
"Caesarea Mazaca" (Kayseri, Turkey) ... 767
Cafés and restaurants
  Marshalltown, Iowa ... 178
  Puerto Rico ... 710
  Rio de Janeiro ... 288, 315
Caguas, Puerto Rico ... 702, 708, 737
Cahalane, Victor H.: Deer of the World: As Workers, Pets, and Graceful "Living Statuary" in Parks and Estates, These Versatile Creatures Have Endeared Themselves to Mankind. By Victor H. Cahalane. 20 ills. in black and white, 23 ills. in color, Oct. 463–510
Caleb, (Capt.) Kim (pirate) ... 373–374
Calendar, Maya ... 214, 216
California Institute of Technology, Pasadena ... 3
Calle Florida, Buenos Aires ... 563; ill. 567
Callico phyllum spruceanum (tree) ... 299

Page

Callirhoe alceoides (poppy mallow) ... 229
Callirhoe digitata (poppy mallow) ... 229
Callirhoe involucrata. See *Mallow, Poppy.*
Caltha palustris. See *Marigold, Marsh.*
Calypso borealis. See *Fairy slipper.*
Camel caravans: Iran ... 327, 334
Camel pack trains used by U. S. Army ... 427
Camels: Palestine ... 764
Camp Dodge, Iowa: Guardsmen ... color plate VI, page 156
"Camp robbers" (Canada jays) ... 97
Campanula rotundifolia. See *Bluebell.*
Campanulaceae. See *Bluebell family.*
Camphor
  Artificial ... 608, 624
  Grown in Puerto Rico ... 722
  Natural ... 605, 608, 617
Campos (grassland) ... 492, 493
Canada, Arctic, Reindeer introduced into ... 481, 482
Canada jays (birds) ... 97
Canal Zone, Panama ... 34
Canals
  Chesapeake and Delaware Canal ... 378–379; ill. 379
  Rio de Janeiro: Mangue Canal ... 305
"Canals" of Mars (planet) ... 14
Canaries, Vender selling: Buenos Aires ... 573
Candy making ... 629; color plates V, page 613; VI, page 614
Cannae, Italy ... 559
Canning factory: Baltimore, Maryland ... ill. 388
Canning Monument, Buenos Aires ... 590
Cannon
  Fort McHenry, Baltimore ... ill. 392
  Mariners' Museum, Newport News ... 358; ill. 363
  Yorktown, Virginia ... ill. 367
Canoes, Log
  Maryland ... ill. 377
  Virginia ... 357, 358
Canterbury bell (flower) ... 255
Canterbury Cathedral ... 741; gravure plate I, page 745
Cantu, Fidel (saddler): Photograph of ... color plate XI, page 457
Canute (king of England) ... 744
Canyon feeding grounds: Yellowstone National Park. 114
Cap Arcona (ship) ... 575
Caparra, Puerto Rico ... 721
  Ruins of Ponce de León's home ... ill. 703
Cape Horn Current ... 142
Caper family ... 227
Capers, French (shrub) ... 227
Capetown, Union of South Africa ... 80, 129, 136
  Monument to Capt. Scott ... ill. 74
Capitolinus, Julius (Roman historian) ... 463
Capitols
  Annapolis, Maryland ... 391; air view 384
  Des Moines, Iowa ... 150; air view 149; color plate XIII, page 171
  Iowa City: Old Capitol ... 164; color plate I, page 151
  San Juan, Puerto Rico ... 705, 738; color plates X, page 730; XI, page 731
  Tallinn, Estonia ... 816
Cappadocia: Where Early Christians Lived in Cones of Rock: A Journey to Cappadocia in Turkey Where Strange Volcanic Pinnacles Are Honeycombed With Hermit Cells and Monasteries. By John D. Whiting. 20 ills. in black and white, 20 ills. in color, 1 half-page map, Dec. 763–802
Capparidaceae. See *Caper family.*
Capreolus capreolus. See *Roe deer.*
Capricorn Channel, Australia ... 62
Caps: Lapland tribes ... 641; color plates I-VIII, pages 657–664
Caps on volcanic cones: Turkey ... 777; ill. 788; color plate I, page 769
Capybaras (rodents): Buenos Aires Zoo ... 592; color plate XII, page 596
Caracas, Venezuela ... 697
Caravans
  Iran ... 327, 334
  Turkey ... ill. 778
Caravanseries: Mihr, Iran ... 347
"Carbolic acid" (phenol) ... 619
Carbon dioxide in clouds surrounding Venus (planet) ... 14
Cardenas, Miguel ... 445
Cardiff, New York ... 165
Cardiff Giant ... ill. 165
Cardinal flower ... 255; color plate XVI, page 254
Cardinals (birds): Argentina ... 573
Carex sp. (sedge) ... 666
Caribbean National Forest, Puerto Rico ... 712
  Giant ferns ... color plate XV, page 735
Caribbean region: Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec. 739–740
Caribbean Sea ... 34, 84
Caribou
  American ... 481

Page

Caribou (Cont.)
Barren-ground ... 483, 484
Mountain ... 484
Woodland ... 484–485; color plate III, page 483
Carillons: University of Puerto Rico ... 712
Carioca Carnival (Rio de Janeiro). 34 ills. in color from natural color photographs by W. Robert Moore. Sept ... 291–322
Carlotta (empress of Mexico) ... 454
Carmel, Mount, Palestine ... 764
Carmen (opera) ... 592
Carnation ... 232
Carnegie Institution of Washington ... 184
Carnegie Library, San Juan ... 705
Carnivals
Rio de Janeiro ... 306, 323–324; color plates IX-XVI, pages 307–314
San Juan ... color plates I, page 713; XI, page 731
Carpatho-Ukraine, Hungary ... 560
Carretera (highway), Puerto Rico ... 705, 707, 728
Carrie Tingley Hospital, Hot Springs, New Mexico ... 426
Carril, Hugo del (singer) ... 592
Carrying tent, Lapp family ... ill. 644
Carson, Kit ... 417
Carthage, Tunisia ... 559
Carts
Estonia ... ill. 806
Rio de Janeiro suburb ... color plate VIII, page 298
Tamaulipas, Mexico ... color plate XII, page 458
Caruso, Enrico ... 563
Carvings, Doorway: Danzig ... ill. 691
Casa Blanca (building): San Juan ... 705; color plate III, page 715
Casa Rosada (building): Buenos Aires ... 561; color plate VI, page 582
Casein: Synthetic textiles made from ... 604, 622, 623
Casinos
San Juan ... 705
Zoppot, Danzig ... 696; ill. 693
Caso, (Dr.) Alfonso (archeologist) ... 212, 213
Cassedy, E. G. ... 218; ill. 212
Cassel Fund, University of Brussels ... 511
Cassia chamaecrista. See *Pea, Partridge*.
Cassiopeia (constellation) ... 28
Castile soap ... 627
Castillo, Bernal Díaz del (chronicler) ... 188
Castle, William R. ... 526
Castles
Estonia ... 803, 825
Malmö, Sweden ... air view 401
Palestine: Crusader castle ... 764
Castolon, Texas: General store ... color plate V, page 435
Catacombs: Petseri Monastery: Estonia ... 831
Catafalque containing image: Puerto Rico ... 723
"Catalin" (plastic) ... 617
Objects made of ... color plate VII, page 615
Cataño, Puerto Rico ... 701
Catarina, Texas ... 454
Catfish: Rio Grande ... 453
Catfish Creek, Iowa ... 175
"Catgut" (plant) ... 249
Cathedrals
Buenos Aires ... 562, 563
Cathedrals of England: An Artist's Pilgrimage to These Majestic Monuments of Man's Genius and Faith. By Norman Wilkinson. 3 ills. in black and white, 16 ills. in gravure from dry-point engravings by the author, Dec. ... 741–762
Estonia ... 811, 816, 820; ill. 811, 813
Petropolis, Brazil ... 304
San Juan, Puerto Rico ... 705
Catherine of Aragon ... 756
Catherine the Great ... 820, 823
Catholic colleges: Iowa ... 161
Catt, Carrie Lane Chapman ... 177
Cattle and cattle raising
Argentina ... 571, 572–573, 589, 592
Breeds named for Channel Islands ... 559
Effect of locoweeds on cattle ... 247
Iowa ... 143; ill. 163, 181; color plate IV, page 154
Mexico ... 197, 205; ill. 215, 449
Puerto Rico ... 728
Ruanda, Africa ... ill. 544
Texas ... color plate XII, page 458
Cavalry: Iowa National Guard ... color plate VI, page 156
Cavell, Edith ... 762
Caverns, Coral limestone: Rodriguez Island ... 69
Çavuşini, Turkey ... ill. 785, 787
Mill in volcanic cone ... ill. 782
Cayey, Puerto Rico ... 737, 740
Cedar Falls, Iowa ... 177
Cedar Rapids, Iowa ... 160, 161
Cedar River, Iowa ... 160
Cellophane ... 601, 624–625; color plates I, page 609; V, page 613
Cellophane industry: Clinton, Iowa ... 175
Celluloid (plastic) ... 608, 617, 619
Celluloid Corporation ... 617

Page

Cellulose ... 617, 623; ill. 622
Cellulose acetate ... 610; color plate XVI, page 640
Cellulose derivatives ... 620
Cement factories
Cataño, Puerto Rico: Chimney ... ill. 701
Iran ... 330
Mason City, Iowa ... 177
Cemeteries: Buenos Aires: Recoleta Cemetery ... 564; ill. 569
"Cemetery Park" (field of anthills): Australia ... 63
Central America: Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec. ... 739–740
Central Argentine Railway Station, Buenos Aires ... 569
Central College, Pella, Iowa ... 161
Central High School, Santurce, Puerto Rico ... 710
Central Lafayette (sugar refinery), Puerto Rico ... 737
Central Mercedita (sugar refinery), Puerto Rico ... air view 727
Cepheids (stars) ... 28
Cephenomyia (genus of flies) ... 477
Cepheus (constellation) ... 28
Cerro de Punta (peak), Puerto Rico ... 728
Cervantes Theater, Buenos Aires ... 587
Cervus axis. See *Axis deer*.
Cervus canadensis. See *Wapiti*.
Cervus canadensis occidentalis. See *Wapiti, Roosevelt*.
Cervus dama. See *Fallow deer*.
Cervus duvauceli. See *Barasingha*.
Cervus elaphus. See *Red deer*.
Cervus hippelaphus. See *Rusa*.
Cervus nannodes. See *Wapiti, Tule*.
Cervus schomburgki. See *Schomburgk's deer*.
Cervus sika. See *Sika deer, Japanese*.
Cervus unicolor. See *Sambar*.
České Budějovice (Budweis), Bohemia ... 560
"Chadopyf" (Buenos Aires subway) ... ill. 587
Chahar Bagh, Isfahan, Iran ... 334
Chahel Situn, Isfahan, Iran ... 335
Challenger (ship) ... 63
Châlons-sur-Marne, France ... 559
Chalus road, Iran ... 325
Chamberlin, (Dr.) T. C. ... 5
Chamisal, New Mexico ... 424
Chapels: Ojinaga, Mexico ... 428
Chapman, Lucie
Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July ... 87–128
Photographs of ... ill. 99, 103, 115, 119
Chapman, Wendell
Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July ... 87–128
Photographs of ... ill. 102, 103, 118, 119
Stalking Big Game with Color Camera. 28 ills. in color from natural color photographs by Wendell Chapman. July ... 89–128
Charcoal used for cooking: Puerto Rico ... 704
Chardonnet, (Count) Hilaire de ... 623
Charles IX (king of Sweden) ... 478
Charles XII (king of Sweden) ... 805
Charles, Cape, Virginia ... 364
Charles City, Iowa ... 176
Charles Sound, New Zealand ... 53; ill. 64
Charlock (plant) ... 227
Charon (ship) ... 358
Charred coconut shell used in gas masks ... 721
Chaulmoogra tree: Puerto Rico ... ill. 706
Checker tournament: Des Moines, Iowa ... ill. 144
Cheese and cheese making
Lapland ... 655
Varieties named for places in Europe ... 559
Cheetah (hunting leopard) ... 108
Chelone glabra. See *Turtlehead*.
Chelone lyoni. See *Turtlehead, Pink*.
Chemical industry: Development since World War ... 601
Chemical refrigeration ... 628
Chemicals used to freeze landslide, Grand Coulee Dam ... 630
Chemistry
Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By Frederick Simpich. 22 ills. in black and white, 26 ills. in color, Nov ... 601–640
Air-conditioning ... 628
Automobile industry ... 632
Dyes ... 601, 608, 617; color plates IX, page 633; XV, page 639
Fluorescent lamps ... 628; color plate X, page 634
Insecticides ... 628; ill. 625, 626, 627
Light control ... 628–629; ill. 605, 607

Page

Chemistry (Cont.)
Perfumes ... 601, 602; color plate XIV, page 638
Plastics ... 601, 617, 619–620, 622; ill. 606, 607, 618, 621; color plates II, page 610; III, page 611; VII, page 615; XVI, page 640
Soap making ... 627–628; ill. 630, 631
Textiles ... 601, 603, 622–624; ill. 603, 604, 622, 623; color plates I–V, pages 609–613; VIII, page 616; XIII, page 637; XIV, page 638
From Nature's Hidden Building Blocks. 26 ills. in color from natural color photographs by Willard R. Culver. Nov. ... 609–640
Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By Frederick Simpich. 22 ills. in black and white, 26 ills. in color. Nov ... 601–640
Cheringoma Plains, Portuguese East Africa ... duotone plate VIII, page 534
Cherrystone Island, Virginia ... 364
Chesapeake (ship) ... 363
Chesapeake and Delaware Canal, Maryland-Delaware ... 378–379; ill. 379
Chesapeake Bay region
Chesapeake Odyssey: An 18-foot Sailboat Follows the Course of Captain John Smith around This Spacious Bay of History, Commerce, Sea Food, and Nautical Lore. By John Maloney. 32 ills., 1 page map, Sept. ... 357–392
Soap making on farm ... ill. 631
Chesapeake Bay Yacht Club: Race ... ill. 369
Chesapeake City, Maryland: Bridge ... 378; ill. 379
Chessmen made of "Catalin" ... color plate VII, page 615
Chester River, Maryland ... 378
Chi Cygni (star) ... 28
Chicharrón (cracklings): Puerto Rico ... 702
Chichen Itzá, Mexico ... 184
Chicken ranch: Iowa ... ill. 177
Chickweeds ... 232
Chicora, Pennsylvania: Meteorite that fell in ... ill. 29
Chicories ... 256
Chihuahua Trail ... 428
Children
Boy with toy chemistry set ... ill. 602
Buenos Aires: Riding llamas ... ill. 575
Danzig ... ill. 681, 683
Fiji Islands ... 47; ill. 56, 57
Girl eating candy ... ill. 629
Iowa ... ill. 180; color plate XI, page 169
Iran ... 355; ill. 326, 348
Lapp ... 675; ill. 642, 652, 666, 670, 673, 674, 675, 676; color plates I, page 657; III–VII, pages 659–663
Marquesas Islands ... 38, 42; ill. 49
Mexico ... ill. 192, 193, 199; color plates XIII, page 459; XVI, page 462
Rio de Janeiro ... color plates IX, page 307; X, page 308; XII, page 310; XIV, page 312
Ruanda: Watussi boys ... ill. 548
San Ildefonso, New Mexico ... color plate XV, page 461
Society Islands ... ill. 54
Turkey ... ill. 789
Chile: Nitrate monopoly ... 607
Chimayo, New Mexico ... 424
Chimney sweeps: Buenos Aires ... 571; ill. 570
Chinese lantern (flower) ... 236
Chinese water deer ... 464, 472, 508–509; color plate XV, page 507
Chiricahua Mountains, Arizona ... 463
Chisos Mountains, Texas ... 439
Chital deer. See *Axis deer.*
Chlamydomonas nivalis (alga) ... 665
Chocolate trees: Puerto Rico ... 722; ill. 723
Chojnice, Poland ... 677
"Choke-bored pants" (riding breeches) ... 453
Choptank (river), Maryland ... 374, 375
Choptank, Little (river), Maryland ... 373
Chosroes II: Grotto of ... 354; ill. 352, 354
Christ, Statue of, Rio de Janeiro ... 283, 300; ill. 286; color plates VI, page 296; XX, page 318
Christening the *Enterprise* ... ill. 370
Christmas Island, Indian Ocean ... 63, 64, 65, 66, 71; ill. 67, 68
Christmas Island Phosphate Company ... 65
Christ's betrayal (fresco): Turkey ... color plate VII, page 775
Chuddar (veil) ... 327
Churches
Bradford, Iowa ... 177
Burlington, Iowa ... 166
Danzig ... 680; ill. 682, 690
New Mexico: Ruins ... 424
Puerto Rico ... 705, 723, 728; color plate VIII, page 720
Rio de Janeiro ... color plate V, page 295
Sweden ... 398, 407
Turkey: Cappadocia ... 791; ill. 788, 790; color plates IV, page 772; VII, page 775; VIII, page 776
Chust (Huszt), Hungary ... 560
Cidra, Puerto Rico ... 737

Page

Cigar-making: Puerto Rico ... 721–722
Cilician Gates (pass), Turkey ... 765
Cimarron (Edna Ferber) ... 179
Cinchona bark: Puerto Rico ... 722
Cincinnati, Ohio ... 627, 630
Cincinnati Reds (baseball team) ... 707
Cinelandia (movie district), Rio de Janeiro ... 288; color plate XXI, page 319
"Cinnamon" bear cub: Rocky Mountains. color plate IV, page 92
Cinquefoil (plant): Rocky Mountains ... 88
Circassian walnut trees: Turkey ... 801
"Circle dance," Wapiti indulge in ... 485
Cirsium arvense. See *Thistle, Canada.*
Cirsium occidentale. See *Thistle, Western.*
Cirsium undulatum. See *Thistle, Wavy.*
Citizenship, Oath of, Danzig burgher taking ... ill. 678
Citlaltepetl (peak), Mexico ... 192
Citronella ... 628
City Council Building, Tower of: Buenos Aires ... 576
City directory hand-set by Mark Twain ... 165
City Hall, Danzig ... 689; ill. 686, 694
City Planning Commission, Rio de Janeiro ... 304
Ciudad Juárez, Mexico ... 427-428, 440; ill. 448
Civic Center, Cedar Rapids, Iowa ... 160
Civil War, English ... 741
Civil War, United States ... 454
Civil War Veterans: Iowa Soldiers' Home ... 178
Claiborne, William ... 376, 384
Clark University, Worcester, Massachusetts ... 6
Clarke College, Dubuque, Iowa ... 161
Clarkias (flowers) ... 251
Claudius (emperor) ... 767
Claytonia virginica. See *Spring beauty.*
Clemens, Orion ... 165
Clemens, Samuel ... 165
Clements, Edith S.
Floral Garlands of Prairie, Plain, and Woodland. 125 flower paintings by Edith S. Clements. Aug. ... 224–270
Flower Pageant of the Midwest: From March to November Nature Embroiders an Ever-changing Pattern of Living Color. By Edith S. and Frederic E. Clements. 1 ill. in black and white, 125 flower paintings, Aug ... 219–271
Clements, Frederic E.: Flower Pageant of the Midwest: From March to November Nature Embroiders an Ever-changing Pattern of Living Color. By Edith S. and Frederic E. Clements. 1 ill. in black and white, 125 flower paintings, Aug ... 219–271
Cleome, Pink ... 227; color plate II, page 226
Cleome serrulata. See *Cleome, Pink.*
Cleveland, Grover ... 150
Clicking sound produced by reindeer when running ... 481
Clinton, Iowa ... 175
Clonfert, Eire, Monastery at ... 140
Cloth used in making "Formica" ... 618
Clothing: Synthetic textiles ... 601, 603, 607–608, 622–624, 632; ill. 604; color plates I–IV, pages 609–612; VIII, page 616; XII, page 636; XIII, page 637
Clovers ... 244
Clunies-Ross, J. ... 69
Clunies-Ross, J. S. (governor of Cocos Islands) ... 69, 74, 75, 79; ill. 70
Coahuila (state), Mexico ... 440, 459
Coal ... 601, 602, 603, 605
Bituminous: Iowa ... 179
Coal seams: Antarctica ... 130
Coal tars, Dyes made from ... 601, 608
Coaling ship, Estonian women ... ill. 819
Coamo, Puerto Rico ... 728
Coamo Springs, Puerto Rico ... 737
Coast Artillery fortress: Rio de Janeiro ... color plate XVIII, page 316
Coats of arms
Argentina ... 587; color plate XI, page 595
Brazil ... 300
Tallinn, Estonia ... ill. 808
Cobblestone road: Danzig-Poland ... ill. 554
Cocijo (Zapotecan god) ... 212
Cockburn, (Adm.) George ... 379
Cockfighting
New Mexico ... color plate II, page 432
Puerto Rico ... 702
Coconuts
Australia ... 62–63
Cocos Islands ... 69, 70
Puerto Rico ... 721
Tuamotu Islands ... 43
Cocos Islands, Indian Ocean ... 66, 67, 69, 71, 74, 75, 79; ill. 71
Cody, (Col.) William F. ... 175
Coe College, Cedar Rapids, Iowa ... 160
Coffee, Woman grinding: Texas ... color plate V, page 435
Coffee drinking
Lapps ... 648, 652, 653, 656
Rio de Janeiro ... 288

Page

Coffee drinking (Cont.)
Sweden ... 393, 396, 399, 402, 413; ill. 394
Turkey ... 802; ill. 783
Coffee grinders
Lapps use ... 652
Swedish farmhouse ... ill. 403
Coffee growing: Puerto Rico ... 707, 728
Coffee roasting and packing plant, Ponce, Puerto Rico ... 728
Cogged railway: Corcovado Peak, Rio de Janeiro ... 301
Colfax, Iowa ... 159
Colom, José E. ... ill. 698
Colón Opera House, Buenos Aires ... 563
Colón Theater, Buenos Aires ... 563, 576, 587, 592
Colonial National Historical Park, Virginia ... 358
Color filter made from blood corpuscles of sheep ... 631
Colorado: Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By Frederick Simpich. 28 ills. in black and white, 24 ills. in color, 6 maps, Oct ... 415–462
Source of the Rio Grande ... 415, 418; ill. 420
Wild life ... 416; ill. 421
Colors, Number of: Dye plants ... 617
Colossal Head: Mexico ... 183, 185, 192, 205, 206–207, 209, 218; ill. 185, 187
Colton, F. Barrows: News of the Universe: Mars Swings Nearer the Earth, Sunspots Wane, and a Giant New Telescopic Eye Soon Will Peer Into Unexplored Depths of Space. By F. Barrows Colton. 23 ills. in black and white, 10 ills. in color, July ... 1–32
Columbia blacktail deer ... 488–489; color plate V, page 487
Columbia College, Dubuque, Iowa ... 161
Columbine
Blue ... 225
Red ... 225; color plate I, page 224
Columbus, Christopher ... 139, 141, 555, 721, 722, 739, 740
"Coma" (nebulous mass surrounding nucleus of comet) ... 10
Comalcalco, Mexico ... 184
Comet class yachts: San Juan harbor ... color plate XIV, page 734
Comets ... 8, 10–11, 14
Commelina erecta. See *Dayflower*.
Commelinaceae. See *Spiderwort family*.
Composites (asters) ... 256
Conchuelas (ticks) ... 201
Concrete aprons: Soil experiment station: Puerto Rico ... ill. 725
Condado, Puerto Rico ... 709
Cone dwellings
Multicolored Cones of Cappadocia. 20 ills. in color from natural color photographs by Eric Matson. Dec ... 769–800
Where Early Christians Lived in Cones of Rock: A Journey to Cappadocia in Turkey Where Strange Volcanic Pinnacles are Honeycombed With Hermit Cells and Monasteries. By John D. Whiting. 20 ills. in black and white, 20 ills. in color, 1 half-page map, Dec ... 763–802
Churches ... 791; ill. 785, 788, 790; color plates IV, page 772; VII, page 775; VIII, page 776; XIII, page 797
Hermit cells ... 791, 801; ill. 779, 781, 782; color plate III, page 771
Homes ... 791–792, 801–802; ill. 785, 787; color plate VI, page 774
Monasteries ... 791; ill. 788; color plates IV, page 772; XII, page 796; XVI, page 800
Tombs ... 777, 791
Coneflower
Prairie ... 260; color plate XIX, page 261
Purple ... 256
Rose ... 256, 260; color plate XVII, page 257
Cones, Volcanic: Turkey ... 768, 777, 789; ill. 780, 781, 782, 784, 785, 788; color plates I, page 769; II, page 770; IV–VI, pages 772–774; IX–XII, pages 793–796; XIV–XVI, pages 798–800
Congo Basin, Africa ... 515
Congress Hall, Buenos Aires ... 563, 576, 577; color plate XIV, page 598
Conifers: Rio Grande, Colorado ... ill. 421
Conquistadores ... 197
Constable, John (painter) ... 761
Constantine (artist) ... 790
Continental Divide, United States ... 415, 419; ill. 420
Continental Shelf, Atlantic Ocean ... 140, 739
Convolvulaceae. See *Morning-glory family*.
Convolvulus arvensis. See *Bindweed, Small*.
Convolvulus sepium. See *Bindweed, Hedge*.
Cook, (Capt.) James ... 51, 54
Cook Point, Maryland ... 374
Cook Strait, New Zealand ... 57
Lighthouse near ... ill. 58
Cooking, Swedish ... 410, 411, 413

Page

Coolidge, (Dr.) Harold J., Jr ... 497
Coolies, Chinese: Christmas Island ... 63, 66
Cooper, Gary ... 159
Co-operative movement: Estonia ... 817–818
Coot: Buenos Aires Zoo ... color plate XII, page 596
Copacabana (suburb), Rio de Janeiro ... 284, 290; ill. 286, 287; color plates VI, page 296; XIX, page 317
Copenhagen, Denmark ... 62, 653
Copper tube dropped by Lincoln Ellsworth ... 137
Copra plantations: Cocos Islands ... 69, 75
Coral: Direction Island, Indian Ocean ... 69
Coral limestone: Rodriguez Island ... 79; ill. 69
Coral-root ... 268; color plate XXIII, page 269
Corallorrhiza multiflora. See *Coral-root*.
Corcovado (pinnacle), Rio de Janeiro ... 283, 300, 301, 304; ill. 286, 289; color plates VI, page 296; XX, page 318
Cordillera Central (mountain range), Puerto Rico ... 728
Córdoba, Pedro de ... 739
Coreopsis, Golden ... 262; color plate XX, page 263
Coreopsis tinctoria. See *Coreopsis, Golden*.
Corinthian Yacht Club, Washington, D. C. ... 392
Cormorants, Flightless: Galápagos Islands ... ill. 41
Corn and Color in the Hawkeye State (Iowa). 20 ills. in color from natural color photographs; 19 ills. by J. Baylor Roberts. Aug ... 151–174
Corn and corn raising
Baltimore cannery ... ill. 388
Corn exported from Argentina ... 576
Iowa ... 150, 159, 161; ill. 145; color plate VIII, page 158
Use in chemistry ... 632
Corn cakes, Mexican women baking: Texas ... ill. 429
Corn cockle (weed) ... 232
Corn monument: Iowa University ... color plate II, page 152
Corn pickers (machines): Iowa ... 179
Corn syrup plant: Clinton, Iowa ... 175
Cornell College, Mount Vernon, Iowa ... 161, 162
Cornwell, Dean (artist) ... 606
Corrientes (street), Buenos Aires ... 586
Cortés, Hernando ... 739
Cornwallis, Lord ... 358, 359
Corona, Streamers of sun's ... color plate VI, page 22
Corridas (poems) ... 202
Corydalis, Golden ... 227; color plate II, page 226
Corydalis aurea. See *Corydalis, Golden*.
Costanera Drive, Buenos Aires ... 585, 587
Costermansville, Belgian Congo ... 523
Costumes
Argentina: Gaucho ... ill. 565; color plate VIII, page 584
Buenos Aires: German chimney sweeps ... ill. 570
Estonia ... 819; ill. 806, 807, 815, 816, 820
Iowa
Dutch ... color plates V, page 155; IX, page 167; XV, page 173
Norwegian ... color plate III, page 153
Iran ... 327, 329, 355; ill. 326, 334, 335, 348
Lapp ... 648, 653, 656, 666; ill. 643, 648, 649, 650, 652, 666, 670, 671, 674, 675; color plates I–VIII, pages 657–664
Made from cellophane ... 625
New Mexico: Navajo ... color plate XV, page 461
Rio de Janeiro ... 323, 324; color plates IX–XVI, pages 307–314
Sweden ... ill. 399
Texas
Early settlers' costumes ... color plate IX, page 455
Mexican hitchhiker ... color plate I, page 431
Turkey: Cappadocian girl ... ill. 766
Cotton ... 601
Cotton blossom ... 229
Cotton linters ... 622, 624; color plate XVI, page 640
Cotton mill: Kayseri, Turkey ... 767–768, 778
Cotton plantations: Iran ... 325, 337
Coulter, (Dr.) M. D. ... 635
Council Bluffs, Iowa ... 145, 172, 177, 181
Railway bridge ... ill. 182
Country Club, San Juan ... 709
Courting dance of European roe ... 470, 500
Cow eating prickly pear: Texas ... color plate XII, page 458
"Cow Lane," Danzig ... 678
"Cowboy and the Lady" (movie) ... 586
Cowboys: Texas ... color plate VI, page 436
Cowgirls: Texas ... ill. 450; color plate IV, page 434
Cowles, Gardner, Jr. ... 165
Coyotes: Rocky Mountains ... 118, 120
Crabs
Chesapeake Bay region ... ill. 373
Land
Christmas Island ... 65–66; ill. 67
Cocos Islands ... 75, 79
Puerto Rico ... ill. 722
Cracca ... 249
Cradles, Lapp ... ill. 674; color plate VI, page 662
Cranberries, Mountain: Sweden ... 655
Crane Tower: Danzig ... 696; ill. 552, 555, 688
"Cranesbill" (wild geranium) ... 231
Crawford County, Iowa ... 150

Page

Crayfish Island, New Zealand ... 55
"Crazyweeds." See "*Locoweeds.*"
Creede, Colorado ... 415, 416–417
  Main street about 1890 ... ill. 423
Creosote used to protect wood ... 602
Crevasses: Hambergs Glacier, Sweden ... 665
"Criollo" (Argentine word for native) ... 576
Criollo horses: Argentina ... 571, 572
Crisfield, Maryland ... 371, 372
Cristóbal, Panama ... 34
Crookes, (Sir) William ... 607
Cross, Stone: Cape Henry, Virginia ... ill. 366
Crows: Texas ... 447
Crucifixion scene (fresco): Göreme, Turkey ... color plate VIII, page 776
Cruz, (Dr.) Oswaldo ... 305
Cruzeiro do Sul (express train) ... 300
Crystal City, Texas: Effigy of "Popeye" ... ill. 450
Cuauhtemoc (hotel), Tlacotalpan ... 193
Cucubano (glowworm): Puerto Rico ... 728
Cuica (musical instrument) ... 323
Culebra (island), Puerto Rico ... 699
Culver, Willard R. ... 371
  From Nature's Hidden Building Blocks. 26 ills. in color from natural color photographs by Willard R. Culver. Nov. ... 609–640
Cumberland Islands, Australia ... ill. 59
Cups, Decorated: Lapland ... 648, 652
Currents: Atlantic Ocean ... 142
Curtain, Portrait of Shah Pahlevi woven into ... ill. 330
Curtis Channel, Australia ... 62
Curzon, Lord ... 325
Customhouses
  Buenos Aires ... color plate III, page 579
  Rio de Janeiro ... ill. 284
Customs inspectors: Texas ... color plate IV, page 434
Customs union: Poland-Danzig ... 551, 679
Cybele (goddess) ... 8
Cyclonic storms, Tropical ... 142
Cypripedium acaule. See *Moccasin flower.*
Cypripedium parviflorum (ladyslipper) ... 271
Cypripedium pubescens. See *Ladyslipper, Yellow.*
Cypripedium reginae. See *Ladyslipper, Showy.*
Cyrus (Persian king) ... 332
Cyrus the Younger (Persian prince) ... 765
Czechoslovakia ... 560

D

Daggs Sound, New Zealand ... 53
Dairy Cattle Congress, Waterloo, Iowa ... 174, 177
Dairy Industries Building, Iowa State College ... color plate XII, page 170
Dairy products exported by Estonia ... 818
Dakar, Senegal ... 139
Daley, (Brig. Gen.) Edmund L.: Photograph of ... ill. 740
Damghan, Iran ... 338, 347
Dams
  Mississippi River ... 165; color plate VII, page 157
  New Mexico ... 415, 426; air view 443
  Washington: Grand Coulee Dam ... 630
Dams, Beaver: Rio Grande ... ill. 421
Dancers and dancing
  Africa: Watussi boys ... ill. 548
  Buenos Aires: Tango ... 585–586, 588; ill. 565; color plates IX, page 593; XV, page 599
  Estonia ... ill. 807
  Green's Ranch, Texas ... ill. 418
  Mexico: *Huapango* ... 201
  Rio de Janeiro carnival ... 323
  Smith Island ... 372
Dandelions: Sweden ... 669
Daniel (fresco): Cone church: Turkey ... color plate VII, page 775
D'Annunzio (town), Libia ... 560
Danzig
  Historic Danzig: Last of the City-States. By William and Alicelia Franklin. 26 ills., Nov. ... 677–696
  Architecture ... 677, 678; ill. 679, 682, 685, 688, 689, 690, 691, 694
  Churches ... 680–681; ill. 682, 690
  Customs union with Poland ... 679
  Dwellings ... 681; ill. 685, 690, 691, 692
  Harbor ... 696; ill. 688
  History ... 677–678, 681, 689, 696
  Ships and shipbuilding ... 696; ill. 687, 688
  War Clouds Over Danzig and Poland's Port. 8 ills. from photographs. Oct. ... 551–558
Dares Beach, Maryland ... 375
Darius I (Persian king) ... 329, 336, 353, 354
Darius's Palace, Persepolis, Iran ... 336
Darley, James M.: World That Rims the Narrowing Atlantic: Latest Ten-color Map Supplement Shows Four Continents and New Transatlantic Air Routes Which Make This Ocean Only One Day Wide. By James M. Darley. 1 ill., July ... 139–142
Darwin, Charles ... 43, 586

Page

Darwin, Australia ... 59, 63
  Anthills near ... ill. 64
Das Innere Reich (periodical) ... 576
Dassen Island, Union of South Africa: Jackass penguin colony ... 81; ill. 72
Davenport, Iowa ... 145, 159, 161, 166, 175
David (Biblical character) ... 764
David, Père ... 504
Davis, Jefferson ... 364
Davis County, Iowa ... 161
Davis Strait, Greenland-Baffin Island ... 142
Dayflower ... 264; color plate XXI, page 265
Dead Sea, Palestine—Trans-Jordan ... 512
"Dead Vistula" (river), Danzig ... 696
Decatur, Stephen ... 357
Decorah, Iowa ... 161
  Museum, Norwegian-American ... color plate III, page 153
Deep-sea exploration: Atlantic Ocean ... 140
Deepwater, New Jersey: Dye Plant ... 608; color plate XV, page 639
Deer
  Antlered Majesties of Many Lands. 23 ills. in color from paintings by Walter A. Weber. Oct. ... 479–510
  Deer of the World: As Workers, Pets, and Graceful "Living Statuary" in Parks and Estates, These Versatile Creatures Have Endeared Themselves to Mankind. By Victor H. Cahalane. 20 ills. in black and white, 23 ills. in color, Oct. ... 463–510
  Ability to swim ... 464, 470
  Antlers ... 463–464, 481; ill. 465, 466, 467, 473, 480, 488
  Canine teeth ... 464; color plates XIV, page 506; XV, page 507
  Commercial importance ... 478
  Cries ... 470
  Curiosity ... 464
  Enemies and diseases ... 477–478, 497
  Evolution ... 463
  Family life ... 472–473, 476–477
  Feeding habits ... 464
  Fighting among deer ... 471
  Geographic distribution ... 463
  Habits and characteristics ... 464, 470–473
  Hind leg, Drawings of ... ill. 473
  Migration ... 463, 483, 485
  Rutting season ... 465, 471, 480
  Tails ... 470; ill. 473
  Pet deer ... ill. 469
  Rocky Mountains ... 88, 98
  Texas ... 454
Deer herdsman, Lapp ... color plate I, page 657
Delbos, Malcomb ... 357, 365
Del Norte, Colorado ... 417
Delphinium exaltatum. See *Larkspur, Tall.*
Del Rio, Texas ... 428, 439, 441, 445
Delta (star) ... 28
Delta region, Argentina ... 591
Demavend (mountain), Iran ... 330
Dentistry: Use of "Lucite" ... 619; ill. 607
Dentist's advertising sign: Iran ... ill. 328
Department of Conservation: Michigan ... 477
Depth contours indicated on Atlantic Ocean map ... 140
Derrick for removing rocks: Högakull farm, Sweden ... ill. 402
Derris roots ... 628
Des Moines, Iowa ... 150, 161, 164, 167; air view 149; ill. 144, 181
Des Moines Rapids, Mississippi River ... 164, 165
Des Moines Register ... 150
Des Moines Register and *Tribune* cup ... 159
Des Moines River, Iowa ... 150, 164; air view 149
Des Moines River Valley, Iowa ... 179
De Soto, Ferdinando ... 739
Destroyer and submarine base: Rio de Janeiro ... color plate XXII, page 320
Destroyers: Gdynia ... ill. 687
Detergents (cleansers) ... 628
Deutschland (submarine) ... 608
Develi, Turkey ... 777, 801
Developing photographs: Vera Cruz expedition ... ill. 209
Devils River, Texas ... 439, 440
Devil's Slide country, Wyoming: Pronghorns ... color plate X, page 106
Dewclaws (false hoofs) of deer ... 481, 505
Diagonal Norte (avenue), Buenos Aires ... 562, 586; ill. 567
Diamonds found in meteorites ... 8
Dianthaceae. See *Pink family.*
Díaz, Bernal ... 211
Dicentra cucullaria. See *Dutchman's-breeches.*
Diele (house), Danzig: Interior of ... ill. 692
Dikes
  Danzig ... 696
  Rio Grande Delta ... 453
Dillon, Lyman ... 143, 175
Dinner for Threshers (painting) ... 161
Direction Island, Indian Ocean ... 69, 71, 75
  Cable station employees ... ill. 70
Dirschau, Poland ... 696
Disciples of Christ: Drake University sponsored by ... 161

Page

Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. 183–218
Discovery II (ship) 136
Distillery, Doorway of: Danzig ill. 689
Diz River Valley, Iran ill. 337
Docks (plants) 232
Docks
Buenos Aires 575; ill. 566, 572, 574, 588
Rio de Janeiro 284
Document claiming territory in Antarctica, Text of 137
Dodecatheon meadia. See *Shooting star.*
Doe and twin fawns (picture by George Shiras, 3d) ill. 475
Dog, Carved clay: Vera Cruz expedition ill. 204
Dogbane, Pink 234; color plate VI, page 235
Dogbane family 234
Dogs
Alpine, Texas: Dog with pipe color plate XV, page 461
Lapp 641, 642, 653, 656, 665; ill. 642, 647, 648, 666; color plates II, page 658; IV, page 660; VI, page 662
"Dogtooth violets" 266
Dogwood, Dwarf: Sweden 641
Dois Irmãos (peaks), Rio de Janeiro 283, 299; ill. 286; color plate IV, page 294
Doldrums (region near Equator): Atlantic Ocean 142
Dolphin: Chesapeake Bay 373
Dolphin Depth, Atlantic Ocean 140
Domberg (hill), Tallinn, Estonia 811; ill. 813, 818
Dome Church, Tallinn, Estonia ill. 813
Dominica (island), West Indies 86
Dominican mahogany, Carved: Puerto Rico 737
Dominican Republic 704
Domrémy, France 559
Donald Duck (cartoon character) 585
Doniphan Expedition 427
Donkeys
Iran ill. 328
Mexico color plate XIII, page 459
Turkey ill. 765, 778, 780, 781
Doorways: Danzig ill. 686, 691
Dorado, Puerto Rico 721
Double stars 28
Douglas, Joe (National Park ranger) 116
Dovecotes: Turkey: Cone country color plates III, page 771; XII, page 796
Doves: Turkey 801; ill. 802
Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By Frederick Simpich. 28 ills. in black and white, 24 ills. in color, 6 maps, Oct. 415–462
Dracocephalum virginianum. See *Dragonhead.*
Dragonhead (plant) 242; color plate X, page 243
Drake University, Des Moines, Iowa 161
Drawbridge: Chesapeake and Delaware Canal 378; ill. 379
Dredgers, Oyster: Chesapeake Bay air view 380
Dredges: Chesapeake and Delaware Canal ill. 379
Dress design, Prize, won by 4-H girl color plate IX, page 167
Dress goods made from seaweed: Japan 632
Drinking fountains: Turkey 765–766
Drumhead, Reindeer hide: Lapp drum ill. 654
Drums
Fijian ill. 56
Lapp magic drum 676; ill. 654, 655
Dry-point engraving: Description of process 744, 761
Drying hay: Högakull farm, Sweden ill. 410
Drying newly dyed yarn: Iran color plate IV, page 342
Dubuque, Julien 175
Dubuque, Iowa 161, 175
River traffic color plate VII, page 157
Dubuque, University of, Iowa 160
Ducks
Australia 63
Buenos Aires Zoo color plate XII, page 596
Mississippi Valley 176; ill. 148
New Zealand 55, 56
Dugouts, Native: Lake Kivu, Africa ill. 519, 525
Duncombe, John F. 179
Dundee Island, Antarctica 131, 132
Dunedin, New Zealand 57
Du Pont de Nemours Company. See *E. I. du Pont de Nemours and Company.*
DuRand, Courtland 496
Durban, Union of South Africa 75, 80
Durham Cathedral 744; gravure plate XI, page 755
Durham Constabulary Headquarters, England 744
Du Rietz, (Dr.) G. Einar 668, 669
Dusky Sound, New Zealand 51, 55
Dust, Interstellar 3, 7, 26, 29
Dutch ovens used to heat pews: Church of St. Mary, Danzig 680
Dutch Reformed Church: Central College under auspices of 161

Page

Dutch settlers: Iowa color plates V, page 155; IX, page 167; XV, page 173
Dutchman's-breeches (plants) 227; color plate II, page 226
Dvořák, Antonin 176
Dwellings
Danzig 681; ill. 685, 690, 691, 692
Des Moines, Iowa 150
Finland: Lapp home 650
Gdynia, Poland ill. 558
Kivu Lake region, East Africa ill. 521
Puerto Rico ill. 699, 707
Rio de Janeiro color plate XXIII, page 321
Sweden
Farmhouses 393, 394, 396, 408–409; ill. 398, 409
Linnaeus' cottage ill. 667
Tallinn, Estonia 810
Tres Zapotes, Mexico 218
Turkey: Cone dwellings 777, 779, 791–792, 801; ill. 787; color plates IV–VI, pages 772–774
See also *Apartment houses.*
Dyeing yarn for rugs: Iran color plate IV, page 342
Dyes 601, 608, 617; color plates IX, page 633; XV, page 639

E

E. I. du Pont de Nemours and Company 601, 603, 607, 626, 630, 631, 635, 637, 638
Eadie, Robert 274, 275, 279, 280, 282; ill. 277
Eagle, Wrought-iron: City Hall, Danzig ill. 695
Eagle Point Park, Clinton, Iowa 175
Ear notches used to mark reindeer 481
Earth (planet) 1, 4, 5, 6, 7, 8, 14, 30
Composition of 5
Eclipse of sun by the color plate VI, page 22
Painting of the earth as seen from the moon color plate I, page 17
Possible future changes 7
Probable date of beginning of life 6
Theories about formation of 5
Earthquakes 5
East Amana, Iowa 160
East India Company 69
East Prussia, Germany 560, 677
Eastern Bay, Maryland 376; air view 389
Eastern Extension Telegraph Company 69
Eastern Telegraph Company: Ascension Island 85, 86
Eastman Kodak plant, Rochester, New York 624, 636
Nitric acid vat color plate XII, page 636
Echidna (mammal) 273
Echinacea angustifolia. See *Coneflower, Rose.*
Echinacea purpurea. See *Coneflower, Purple.*
Echium vulgare. See *Viper's bugloss.*
Echo-sounding apparatus, Ships equipped with 140
Eclipse, Total, to be in 1940 2
École des Beaux Arts, Paris 16
Economic results of advance of synthetic chemistry 607–608, 617, 632
Edward II, Tomb of: Gloucester Cathedral 744
Edward the Confessor 744
Edward, Lake, Uganda-Belgian Congo 511, 512, 513
Eels, River, breed in Sargasso Sea 142
Egbert (king of England) 744
Eggs inoculated with yellow fever virus 306; ill. 305
Egmont, Mount, New Zealand ill. 58
Egrets: Australia 63
Einstein, (Dr.) Albert 32
Elaphodus elaphodus. See *Tufted deer, Michie's.*
Elaphurus davidianus. See *Milu.*
Elburz Mountains, Asia 325, 326
Electric furnace, Spun glass from color plate XIV, page 638
Electric Peak, Montana 118
Electricity, Windmill propeller for generating ill. 178
Elephant Butte Dam, New Mexico 415, 426
Elephant Butte Reservoir, New Mexico color plate XIV, page 460
Elephants
Africa duotone plates IX, page 535; XI–XIII, pages 537–539
Belgian Congo 514, 515, 524, 543
Elephant testing plywood plank ill. 620
Elephant's ear leaf used as umbrella: Tres Zapotes ill. 191
Elijah (prophet) 783
Elizabeth Bay, Galápagos Islands 36
Elk
American. See *Wapiti.*
European. See *Moose, European.*
Elk Refuge, Jackson Hole, Wyoming 485
Elk River, Maryland 378, 379, 386
Elk skinning: Sweden 414
Elkader, Iowa: School ill. 180
Elkskin: Uses of 478
Ellsworth, Lincoln
My Four Antarctic Expeditions: Explorations of 1933–39 Have Stricken Vast Areas from the Realm of the Unknown. By Lincoln Ellsworth. 9 ills., 1 page map, July 129–138
Photographs of ill. 133, 135, 136
Elm tree ("Green Tree Hotel") 175

Page

Elmali Kilise Sanctuary, Turkey: Frescoes in . . color plate XIII, page 797
El Mesón, Mexico . . . 218
El Morro (fortress), Puerto Rico . . . 698, 705; air view 699; color plates IV, page 716; XIII, page 733
El Mundo (tabloid) . . . 572, 576
El Paso, Texas . . 415, 427–428, 434, 440, 443, 448, 449, 453
El Semil (coffee plantation), Puerto Rico . . . 728
Ely Cathedral . . . 741, 742; gravure plate V, page 749
El Yunque (mountain), Puerto Rico . . . 712; color plate XV, page 735
Ema River, Estonia . . . 819; ill. 823
Ember cakes, Barley meal . . . 655
Emden (ship) . . . 70, 75, 79
Emerson, (Dr.) John . . . 166
Encelia californica (bush sunflower) . . . 262
"Enchanted Isles" (Galápagos Islands) . . . 35
Enchilada (Mexican dish) . . . 454
Enderby Land, Antarctica . . . 138
Energy
  Solar, Attempts to utilize . . . 25
  Subatomic . . . 28
England
  Cathedrals of England: An Artist's Pilgrimage to These Majestic Monuments of Man's Genius and Faith. By Norman Wilkinson. 3 ills. in black and white, 16 ills. in gravure from dry-point engravings by the author, Dec. . . . 741–762
  Synthetic products . . . 632
"English College," Tallinn, Estonia . . . 834
English House (dwelling), Danzig . . . ill. 690
Engraving, Dry-point . . . 744, 761
Engravings: Cathedrals of England: An Artist's Pilgrimage to These Majestic Monuments of Man's Genius and Faith. By Norman Wilkinson. 3 ills. in black and white, 16 ills. in gravure from dry-point engravings by the author, Dec. . . . 741–762
Eno, Byron: Photograph of . . . ill. 469
Enterprise (aircraft carrier) . . . ill. 370
Epigaea repens. See *Trailing arbutus.*
Epsilon Aurigae (star) . . . 27
Equator . . . 139, 142
Erbium (element) . . . 560
Erciyas Dağı (Mount Argaeus), Turkey . . . 766
Ericaceae. See *Heath family.*
Erosion of volcanic cones: Turkey . . . 768, 777, 792
Erysimum asperum. See *Wallflower, Western.*
Erythronium albidum. See *Adder's-tongue, White.*
Erythronium americanum. See *Adder's-tongue, Yellow.*
Erythronium montanum (avalanche lily) . . . 266
Erythronium parviflorum (glacier lily) . . . 266
Erythroniums . . . 266
Escalator, Buenos Aires subway . . . ill. 587
Esdraelon, Plain of, Palestine . . . 764
Esther: Legendary tomb of . . . 332
Estonia: At Russia's Baltic Gate: War Often Has Ravaged This Little Nation Whose Identity Was Long Submerged in the Vast Sea of Russian Peoples. By Baroness Irina Ungern-Sternberg. 33 ills., 1 half-page map, Dec. . . . 803–834
  History . . . 803, 805, 807, 820
  Industries and agriculture . . . 803, 816–819, 824; ill. 819, 824, 825
  Legends and myths . . . 803, 811, 820, 822, 827, 831–832
  Singing festivals . . . 834; ill. 807, 816, 820, 829
  Tribes and minorities . . . 803, 817, 820, 822, 826; ill. 831, 832
Estonian National Museum, Tartu, Estonia . . . 820
Estonian Singers Association . . . 834
Estrellas federales (poinsettias) . . . 564
Ethelwulf (king of England) . . . 744
Eupatorium coelestinum. See *Mistflower.*
Euphorbia marginata. See *Snow-on-the-mountain.*
Euphorbia pulcherrima. See *Poinsettia.*
Euphorbiaceae. See *Spurge family.*
Euphrates River, Asia . . . 767
Europe: Society's New Map of Central Europe and the Mediterranean. Text accompanying special map supplement in colors. Oct. . . . 559–560
European red deer stags called "brown brocket" . . . 492
European stag . . . 117
Europe's Northern Nomads (Lapps). 12 ills. in color from natural color photographs by Jack Kuhne, Nov. . . . 657–664
Europium (element) . . . 560
Evangelical Church: Western Union College sponsored by . . . 161
Evening primrose
  Common . . . 251
  Prairie . . . 251; color plate XIV, page 250
  Trumpet . . . 251; color plate XIV, page 250
  Yellow . . . 251
Evening primrose family . . . 251
Evening star (plant) . . . 253; color plate XV, page 252
Evening star family . . . 253
Evergreens: Rocky Mountains . . . 88, 104, 117
Ewell, Smith Island . . . 371

Page

Experiment Station, U. S. Department of Agriculture: Puerto Rico . . . 722–723
Exploding stars . . . 28

F

Fabaceae. See *Pea family.*
Fabens, Texas . . . 428
Fabrics made from glass . . . 603, 629; ill. 623; color plates V, page 613; XIV, page 638
Face glands of sambar deer . . . 497
Factories
  Iowa . . . 150, 177, 178
  Iran . . . 330, 335
Fahy, (Father) Anthony D. . . . 576
Fairfield, Iowa . . . 160
Fairs
  Des Moines, Iowa . . . 144, 167; ill. 181
  Spencer, Iowa . . . color plate V, page 155
  Värnamo, Sweden: Farmers' fairs . . . 402, 405
Fairy slipper (orchid) . . . 271; color plate XXIV, page 270
Falguière, Alexandre . . . 564
Fallow deer . . . 463, 500; color plate XI, page 499
False hoofs of deer . . . 481, 505
False-mallow, Red . . . 229; color plate III, page 228
Fantail (bird): New Zealand . . . 56
Farmer, Swedish . . . ill. 395
"Farmers' friends" (white-bellied storks): Africa duotone plate IV, page 530
Farmington, Iowa . . . 164
Farms: Iowa . . . ill. 177; color plate IV, page 154
Farragut, David . . . 363
Fatima: Burial place of . . . 330
Favorite (tug) . . . ill. 37
Fawn drinking milk: California . . . ill. 464
Fayaway (character in *Typee*) . . . 49
Fayette, Iowa . . . 161
Feast of the Annunciation: Lapland . . . 672
Federal Hill Park, Baltimore, Maryland . . . ill. 385
Ferber, Edna . . . 179
Ferdinand (king of Spain) . . . 698
Ferguson, Homer L. . . . 360, 363
Fergusson, Harvey . . . 424
Fern leaves, Fossil impressions of: Antarctica . . . 130
Fernando de Noronha (island), Atlantic Ocean . . . 86
Ferns, Giant: Puerto Rico . . . 712; color plate XV, page 735
"Ferroviario" (peanut roaster): Buenos Aires . . . 571; ill. 570
Ferryboats: Rio de Janeiro . . . 290
Fertilizer
  Lava acts as . . . 524
  Nitrates used for . . . 607
Festivals and ceremonies
  Estonia: Singing festivals . . . 834; ill. 829
  See also *Carnivals.*
Fever tick inspection for cattle: Mexican border . . . 437
"Fiberglas" (spun glass) used in shoe soles . . . color plate XII, page 636
Fiddle-neck (flower) . . . 236
Field Museum of Natural History, Chicago: Meteorite in . . . ill. 32
Fiji (islands), Pacific Ocean . . . 47, 50; ill. 45
Filao tree: Rodriguez Island . . . 80
Filling station: Buenos Aires . . . color plate XVI, page 600
Film scrap used for making patent leather . . . 625
Filters, Glass wool used for . . . 629
Finca (ranch): Puerto Rico . . . 728
Finger of God (pinnacle), Brazil . . . 304
Finger-wrestling: Pirita, Estonia . . . ill. 806
Finland, Gulf of . . . 803; ill. 821
Finno-Ugric origin, Estonians are of . . . 803
Fir, Alpine: Rocky Mountains . . . 97
Firdausi (hotel), Isfahan, Iran . . . 334
Firdausi (hotel), Tehran, Iran . . . 327
Fire altars: Iran . . . 337
Fire fighting equipment: Ponce, Puerto Rico . . . color plate XVI, page 736
Fire station: Ponce, Puerto Rico . . color plate XVI, page 736
Fireplaces
  Cone dwellings: Turkey . . . 792
  Högakull farmhouse, Sweden . . . 394; ill. 398
Fireproof agents, Fabrics treated with . . . ill. 619
Fireproofing, Glass wool used in . . . 629
Fish and fishing industry
  Airplane motor grease made from fish . . . 632
  Chesapeake Bay region . . . 357, 371; ill. 375
  Fish boiled by lava in Lake Kivu . . . 543
  Fish used as fertilizer . . . 388
  Galápagos Islands . . . 35, 36
  Lapland . . . 641, 650, 656
  Rio de Janeiro . . . 294; ill. 302
  Sweden . . . 411; ill. 410
  Thursday Island . . . 63
  Tlacotalpan, Mexico . . . 192
  See also *Fishing (sport).*
Fish traps
  Chesapeake Bay . . . 391; ill. 375
  Guanabara Bay, Brazil . . . 340

Page

Fisher, Clyde
Nomads of Arctic Lapland: Mysterious Little People of a Land of the Midnight Sun Live Off the Country Above the Arctic Circle. By Clyde Fisher. 28 ills. in black and white, 12 ills. in color, 1 page map, Nov. 641–676
Photograph of. ill. 668
Fisherman: Lake Kivu, Africa. ill. 516
Fishhooks, Forged salt water. 39
Fishing (sport)
Colorado. 415; ill. 421
Rio de Janeiro. 300
Rio Grande: Tarpon. 454
Rocky Mountains. 97
Five Sisters Window: York Minster. 761
Fjords: Norway. 666
Flags
Maryland State. ill. 390
Mexico. color plate XVI, page 462
Texas. color plate XVI, page 462
Yorktown, Virginia. ill. 367
Flamboyant trees
Brazil. 299
Paquetá Island, Brazil. color plate XXIV, page 322
Puerto Rico. 712
Flamengo Bay, Rio de Janeiro. color plate XVII, page 315
Flamengo Beach, Rio de Janeiro. 284, 290
Flamengo district, Rio de Janeiro. color plate XVIII, page 316
Flamengo Drive, Rio de Janeiro. color plates VIII, page 298; XVI, page 314
Flamengo Yacht Club, Rio de Janeiro: Stadium. color plate IV, page 294
"Flamenol" (insulating material). color plate XVI, page 640
Flax. 601
Blue. 231; color plate IV, page 230
Fleet Street, London. ill. 743
Flies, Deer afflicted with. 477
Flint and steel, Indian striking fire with. ill. 448
Floats, Carnival
Rio de Janeiro. 324
San Juan. color plate XI, page 731
Floral Garlands of Prairie, Plain, and Woodland. 125 flower paintings by Edith S. Clements. Aug. 224–270
Florida discovered by Ponce de León. 703
Flower-of-an-hour. 229; color plate III, page 228
Flower Pageant of the Midwest: From March to November Nature Embroiders an Ever-changing Pattern of Living Color. By Edith S. and Frederic E. Clements. 1 ill. in black and white, 125 flower paintings, Aug. 219–271
Flowers
Floral Garlands of Prairie, Plain, and Woodland. 125 flower paintings by Edith S. Clements. Aug. 224–270
Flower Pageant of the Midwest: From March to November Nature Embroiders an Ever-changing Pattern of Living Color. By Edith S. and Frederic E. Clements. 1 ill. in black and white, 125 flower paintings, Aug. 219–271
Flown to United States from Mexico. 454; color plate IV, page 434
Iowa. 173; color plates XI, page 169; XIV, page 172
Flowers on light posts. color plate XII, page 170
Mexico. 193
Puerto Rico. 712, 722; color plates III, page 715; XI, page 731; XV, page 735
Sweden. 641, 668, 669; ill. 649
Types and parts of. ill. 221
Fluminense Yacht Club, Botafogo Bay. 290
Fluorescent lamps. 628; color plate X, page 634
Flux (limestone and dolomite). 382
Flying boat: *Yankee Clipper*. ill. 141
Flying fish: Pacific Ocean. 43
Flying Fish Cove, Christmas Island. 63
"Flying salt cellars" (airplanes carrying salt for deer). 464
Food
Ascension Island, Imported into. 85
Iowa. 178, 179; color plate V, page 155
Iran. 334, 335, 347
Lapps. 655–656; ill. 652
Marquesas Islands. 39
Puerto Rico. 702, 705, 709; ill. 707, 722
Sweden. 393, 394, 410, 411, 413
Turkey. 777, 801–802; ill. 783, 787
Footgear
Iowa: Wooden shoes. color plate IX, page 167
Lapp boots. 653, 654, 666; color plates I, page 657; VIII, page 664
Sweden. 394
Ford, Bob. 416–417
Forest Service, Department of Agriculture, Puerto Rico. 706, 712, 738
Forestry Division, Puerto Rico Reconstruction Administration. 712
Forests and forestry
Iowa. 176
Puerto Rico. 712

Page

Forests and forestry (Cont.)
Sweden. 394, 395
Forget-me-not. 236
Formaldehyde. 619
"Formica" (plastic): Gear wheels made of. ill. 618
Fort Atkinson, Iowa. 176
Fort Bliss, Texas: Cavalry post. 427, 434
Fort Dodge, Iowa. 179
Fort Geronimo, San Juan. 709
Fort Hancock, Texas. 428
Fort McHenry, Baltimore, Maryland. 356, 371, 386; air view 383; ill. 392
Fort Madison, Iowa. 165
Fort Madison (city), Iowa. 165
Fort Monroe, Virginia. 364
Fort Severn, Maryland. 384, 391
Fort Storey, Virginia. 364
Forts and fortresses
Danzig. 696
Estonia. ill. 812, 818
Marienburg: Germany. 677; ill. 684
Rayy, Iran. 330
Rio de Janeiro. color plate XVIII, page 316
San Juan. 698, 709; color plates II, page 714; IV, page 716; XIII, page 733
Forty Daughters, Tomb Tower of the, Iran. 347
Fossils
Antarctica. 130
New Mexico. 419
Texas. 439
Fountain: Iowa State College. color plate XII, page 170
Fountain pens manufactured by Sheaffer. 165–166
"Four eyes" (Chinese name for sambar). 497
4-H Club Girls: Iowa. color plate IX, page 167
Fourth dimension, Theory of the. 32
Foveaux Strait, New Zealand. 56
Fox Indians: Iowa. 175, 176, 178
Foxgloves. 238
Foynes, Eire. 139
France. 559, 560
Franconia (cruise ship). ill. 284
Franklin, Alicelia: Historic Danzig: Last of the City-States. By William and Alicelia Franklin. 26 ills., Nov. 677–696
Franklin, Benjamin. 378
Franklin, William: Historic Danzig: Last of the City-States. By William and Alicelia Franklin. 26 ills., Nov. 677–696
Franklin D. Roosevelt Tower (carillon), University of Puerto Rico. 712; ill. 709
Franklin Institute, Philadelphia: Murals by Charles Bittinger. 16
Franklin Mountains, New Mexico-Texas. air view 443
Frémont, John C. 419
Frescoes
Multicolored Cones of Cappadocia. 20 ills. in color from natural color photographs by Eric Matson. Dec. 769–800
Turkey. 791; ill. 790
Freshwater Basin, New Zealand. ill. 60
Fringed gentians: Rocky Mountains. 100
Frisches Haff (lagoon), Danzig. 696
"Frogs" (inhabitants of section of Buenos Aires). 586
From Nature's Hidden Building Blocks (Synthetic Products). 26 ills. in color from natural color photographs by Willard R. Culver. Nov. 609–640
Fronteriza Mountains, Mexico. 430, 439
Fruit and fruit growing
Argentina. 591; color plate XVI, page 600
Puerto Rico. 707, 721; ill. 722; color plates VII, page 719; XII, page 732
Turkey. 777, 780, 792; ill. 787; color plate V, page 773
Fuchsias. 251
"Fumitories" (plants). 227
Funny papers, Argentine. 585
Furfural (substitute for formaldehyde). 150, 164
Furniture made from birch: Estonia. 818
Fusan Maru (ship). 364
Fuselages, Airplane: Made of Bakelite. 619

G

Gaboto, Sebastian (Sebastian Cabot). 561
Gaillardia
Perennial. 256
Rose. 256; color plate XVII, page 257
Gaillardia aristata. *See Gaillardia, Perennial.*
Gaillardia pulchella. *See Gaillardia, Rose.*
Galápagos Islands, Pacific Ocean. 34, 35, 36, 85; ill. 40, 41, 42, 43, 44
Galaxies. 3–4, 5, 25, 29–30; ill. 26, 27
Galesville, Maryland. 356
Galilee Porch, Ely Cathedral. 741
Gallatin Range, Montana. 88
Bull moose. color plate I, page 80
Gallatin River, Montana-Wyoming. 88
Gallia (Latin for France). 560

Page

Gallic Wars (Julius Caesar) 463
Gallium (element) 560
Gällivare Lapps 642, 648, 652, 653
Galloway Plant, Waterloo, Iowa 177
Game refuges: New Mexico 426
Garages as hotels: Iran 338
Garapatas (ticks) 201
Garay, Don Juan de 561
García, Augustín ill. 211
Gardens
  Argentine ranch house 572
  Danzig: Medieval 681, 689
  Direction Island, Indian Ocean 67, 71
  Linnés Hammarby, Sweden ill. 667
  Tehran, Iran ill. 333
Garner, John Nance 453
Garnet in rock: Antarctica 138
Gas
  Cometary 10
  Illuminating 15
  Interstellar 3
  Natural 605
  Solar 5, 25
Gas masks, Charred coconut shell used in 721
"Gas tearoom": Buenos Aires 576
Gas vents: Virunga range, Belgian Congo 526, 543
Gases in lava 526, 543
Gasoline cans used as water jugs ill. 196
Gates and gateways
  Danzig ill. 690, 692
  International Railway Bridge, Laredo ill. 426
  Texas: "Bump gates" 440; ill. 441
Gauchos: Argentina 493, 571–572, 586; ill. 565, 590
Gaura, Scarlet 251; color plate XIV, page 250
Gaura coccinea. See *Gaura, Scarlet.*
Gavea Golf and Country Club, Rio de Janeiro 299; color plate II, page 292
Gavea Mountain, Rio de Janeiro 283, 285, 299, 300; ill. 286; color plate IV, page 294
Gawhar Shad 340, 346
Gawhar Shad Mosque, Meshed, Iran 347, 353; color plates II, page 340; VIII, page 346
Gayle, Gordon 391
Gdynia, Poland 680, 696
  War Clouds Over Danzig and Poland's Port. 8 ills. from photographs. Oct 551–558
Gear wheels made of pressed cloth ill. 618
Geese, Wild: Australia 63
General Electric Company 620, 628, 630, 640
Genoa, Italy 575
Gentian
  Fringed 234; color plate VI, page 235
  Rose 234; color plate VI, page 235
Gentian family 234
Gentiana amarella. See *Amarella.*
Gentiana calycosa (gentian) 234
Gentiana crinita. See *Gentian, Fringed.*
Gentianaceae. See *Gentian family.*
Gentius (king of Illyria) 234
Geologic formations: Antarctica 133, 138
Geology
  Multicolored Cones of Cappadocia. 20 ills. in color from natural color photographs by Eric Matson. Dec 769–800
  We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eight Months' Study. By Dr. Jean Verhoogen. 28 ills., 1 two-thirds-page map. Oct 511–550
Georgia School of Technology, Atlanta, Georgia 33
Geraniaceae. See *Geranium family.*
Geranium, Wild 231; color plate IV, page 230
Geranium family 231
Geranium incisum (flower) 231
Geranium maculatum. See *Geranium, Wild.*
Gerard, John (botanist) 240
Gerardia, Pink 240; color plate IX, page 241
Gerardia tenuifolia. See *Gerardia, Pink.*
German Knights of the Sword: Estonia 803, 805, 818
German settlers: Iowa color plate XI, page 169
Germanium (element) 560
Germany 140, 559, 560, 677, 819
  Aerial survey of Antarctica 132, 138
  Synthetic products 632
Gibraltar 575
Gibraltar, Strait of 140
Gibson Island, Chesapeake Bay: Yachting center 389; ill. 368, 381
Gilded Domes Against an Azure Sky (Iran). 13 ills. in color from natural color photographs by Stephen H. Nyman. Sept 339–346
Giraffes: British East Africa duotone plates III, page 529; XVI, page 542
Glaciers
  Greenland: Icebergs come from 142
  New Zealand 51
  Sweden 665; ill. 651

Page

Gladioluses 564
Gland extracts: Packing plants: Argentina 573
Glass
  Fabrics made from 603, 629; ill. 623; color plates V, page 613; XIV, page 638
  Spun glass used in shoe soles color plate XII, page 636
Glass wool 629
Glenn Springs, Texas 430, 450
"Glenn Springs Raid" 430
Glint (cliff): Estonia ill. 821
"Globeflowers" 669
Gloucester Cathedral 744; gravure plate XIV, page 758
Gloucester Point, Virginia 357
Glycerin: By-product of soap 627–628
"Glyptal" (plastic) 617
Gneiss (rock): Antarctica 133, 138
Goats: Turkey ill. 786
Goatsrue (plant) 249; color plate XIII, page 248
Goddard, (Prof.) Robert H.: Rocket designed by ill. 6
Goggles on horse: Texas ill. 447
Gold found in meteorites 8
Gold mines, South Africa: Chemical air-conditioning 628
Golden Gate Bridge, San Francisco 382
Golden glow (coneflower) 260
Goldenrod
  Showy 258; color plate XVIII, page 259
  Stiff 258; color plate XVIII, page 259
  Sweden 669
"Goldwasser" (liqueur) 689
Golf courses
  Ascension Island 85
  Rio de Janeiro 299–300; color plate II, page 292
  San Juan color plate XIII, page 733
Goliath 764
Golkundra Valley, Turkey 789
Gonçalves, André 283
Goobers (peanuts) 570
Good Hope, Cape of 57, 80; ill. 75
Gophers, Pocket, eaten by badgers 112
Göreme, Turkey 789, 791
Gorillas: Belgian Congo 514, 515, 524
Gorlovka, U. S. S. R 560
Gorongosa Plains, Mozambique duotone plates I, page 527; V, page 531; VII, page 533; XI–XIII, pages 537–539
Goujon, Jean 576
Gould, Stephen P. 622
Gourds for drinking yerba maté 586, 587; color plates VIII, page 584; XI, page 595
Governador Island, Guanabara Bay, Brazil 290, 304
Government House, Buenos Aires 562, 563
Governor McLane (police boat) 378
Governor's Day Review, Camp Dodge, Iowa 156
Grain elevators
  Buenos Aires color plate VI, page 582
  Iowa 161
"Granary Island," Danzig harbor 696
Grand Banks (fishing grounds), Atlantic Ocean 140, 142
Grand Coulee Dam, Washington 630
Grand French Battery, Yorktown, Virginia ill. 367
Granite, Pink: Antarctica 138
Grant, Ulysses S 454
Grapefruit
  Brownsville, Texas 454
  Puerto Rico color plate VII, page 719
Grapefruit canneries: Puerto Rico 721
Grasselli Chemicals Department, Philadelphia: Sulphuric acid coolers ill. 626
Grasses 256
Grave, Lapp girl's ill. 643
Graving dock: Puerto Rico 709
Gravitation 27
Grease for airplane motors made from fish: Japan 632
Great Barrier Reef, Australia 62, 66
Great Britain, Christmas Island annexed by 63
Great Fire of 1666: London 743
Great Lake Fall, Sweden 670
"Great Nebula in Andromeda" (galaxy) 30
Great Rift Valley, Africa 512
Great Sandy (Frazer) Island, Australia 62
Greece 560
Greek Orthodox Cathedral, Narva, Estonia 825
Greek Orthodox Church, Tallinn, Estonia 811; ill. 811
Greeley, Horace 159
Green Bridge, Danzig ill. 690
Green Gate, Danzig ill. 690
Green Mountain, Ascension Island 85; ill. 76
"Green Tree Hotel" (elm tree) 175
Greenbury Point, Maryland 301; air view 384
Greene County, Iowa 158
Greenland: Icebergs formed from glaciers 142
Green's Ranch, Texas: Dancers ill. 418
Greiner, J. H 159
Grijalva expedition 188
Grinding meal, African woman ill. 549
Grinnell, Josiah Bushnell 159
Grinnell, Iowa 159
Grinnell College, Iowa 159, 161

Page

Gristmill built at base of cone: Turkey ... 777
Grosvenor, Gilbert
  Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec ... 739–740
  Society's New Map of Central Europe and the Mediterranean. Text accompanying special map supplement in colors. Oct ... 559–560
Ground-cherry
  Clammy ... 236
  Purple ... 236; color plate VII, page 237
Ground plum ... 247; color plate XII, page 246
Groundsel (shrub): Belgian Congo ... 525; ill. 546
Groundsels (ragworts) ... 256
Gruyères, Switzerland ... 559
Guagnas (buses): San Juan ... 705
Guajataca River, Puerto Rico ... 721
Guanabara Bay, Brazil ... 283, 297, 304; ill. 286, 302; color plate IV, page 294
Guanabara Palace, Rio de Janeiro ... color plate III, page 293
Guanacos: National Zoological Park, Washington, D. C ... 575
Guánica, Puerto Rico ... 728
Guano used for fertilizer: Turkey ... 777, 796, 801, 802
Guantánamo, Cuba ... 740
Guards: Polish-Danzig boundary ... ill. 556
Guatemala ... 740
Guava trees
  Mexico ... 197
  Puerto Rico ... 728
Guayama, Puerto Rico ... 710, 737
Guayama-Cayey Road, Puerto Rico ... 737
Guazupuco (South American marsh deer) ... 493
Guemal (deer) ... 492
Guild Hall, Danzig ... 689; ill. 694
Gulches Head, New Zealand ... 55
Gulf Stream, Atlantic Ocean ... 86, 141, 142
Gulfweed: Sargasso Sea ... 141
Gulistan Palace, Tehran, Iran ... 326; ill. 331
Gull Point, West Okoboji Lake, Iowa ... color plate X, page 168
Güllü Dere (valley), Turkey ... color plate V, page 773
Gunbad-i-Qabus, Iran ... 338
Gunn, (Dr.) Ross ... 5
Gustavus Adolphus (king of Sweden) ... 805, 819
Gutiérrez, Ricardo ... 194; ill. 217
Gypsies
  Iran ... 351
  Whitby Abbey, England ... 761
Gypsum: Iowa ... 179

H

Habenaria psycodes. See *Orchid, Purple fringed.*
Hagenia abyssinica (paperbark tree) ... 524–525
Haifa, Palestine ... 704
Haigh, Samuel ... 585
Haiti ... 84
Haka Hau (Marquesan native) ... 30
Haka Hetau, Marquesas Islands ... 39, 42
Halifax (ship) ... 362
Hall, James Norman ... 159
Halley's comet ... 10, 14
Halys River, Turkey ... 768, 770
Hamadan, Iran ... ill. 332
Hamamelidaceae. See *Witch hazel family.*
Hamamelis virginiana. See *Witch hazel.*
Hambergs Glacier, Sweden ... 665
Hamburg, Germany ... 575
Hampton, Virginia ... 376
Hampton Roads, Chesapeake Bay ... 360, 363, 364
Hampton Yacht Club ... 360
Hana Nai Bay, Marquesas Islands ... 39
Hanalapa, Marquesas Islands ... 38
Handicraft
  Estonia ... 819
  Lapp ... 652, 656
  Malay: Cocos Islands ... 79
  Marquesas Islands ... 39; ill. 53
Hangar, Airplane: San Juan ... air view 700
Hannah (Biblical character) ... 764
Hannibal ... 559
Hanno (Carthaginian navigator) ... 140
Hanseatic League ... 677
Harbors and ports
  Baltimore, Maryland ... air view 383; ill. 385, 392
  Buenos Aires ... 574–575; ill. 566; color plates III, page 579; V, page 581
  Danzig ... 696; ill. 552, 553, 555, 687, 688
  Gdynia, Poland ... ill. 557
  Rio de Janeiro ... 284, 306; ill. 284, 286; color plates I, page 291; XVIII, page 316
  San Juan, Puerto Rico ... 698, 705; air views 699, 700; ill. 701, 704; color plates II, page 714; XIV, page 734
  Solomons Island, Maryland ... 391

Page

Hardicanute (king of England) ... 744
Hares, Patagonian: Buenos Aires Zoo ... 592
Hart, Charles W ... 176
Hart-Parr Company, Iowa ... 177
Hartford, Huntington ... 62
Hart's Bluff (trading post), Iowa ... 181, 182
Harun-al-Rashid ... 329, 339, 353
Harvard University, Cambridge, Massachusetts ... 32, 497
Harvesting hay and grain: Sweden ... 396; ill. 397, 404
Hatay Republic ceded by France to Turkey ... 560
Hatt, Emilie Demant ... 670
Hattiesburg, Mississippi: Hercules Powder Company mill ... ill. 624
Havre de Grace, Maryland ... 379
Hawk-Eye Gazette (Iowa newspaper) ... 166
Hay crop: Högakull farm, Sweden ... 396; ill. 408, 410
Hayden Planetarium, New York City ... ill. 12
Hazelius, (Dr.) Arthur ... 405
Headband for supporting baby: Africa ... ill. 549
Headgear
  Estonia ... ill. 806, 807, 816
  Hat made of cellophane ... color plate I, page 609
  Lapps ... 641; color plates I–VIII, pages 657–664
  Marquesas Islands: Vakini palm hat ... 39; ill. 53
  Puerto Rico: Hats of yarey palm ... color plates V, page 717; VII, page 719
  Texas
    Nebraska hat ... ill. 446
    Straw sombrero ... color plate V, page 435
Healesville, Australia ... 274, 277, 281, 282
Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec ... 739–740
Heartsease ... 232; color plate V, page 233
Heath family ... 255
Heather, Giant: Belgian Congo ... 543
Hedge nettle ... 242; color plate X, page 243
Helianthus annus (sunflower) ... 262
Helianthus rigidus. See *Sunflower, Stiff.*
Helianthus tuberosus. See *Jerusalem artichoke.*
Heliopsis scabra. See *Oxeye, Rough.*
Heliotrope ... 236
Helium (gas) ... 4, 25
Hellemobotn, Norway ... 666
Hellemofjord, Norway ... 666
Hemp ... 601
Henry II (English king) ... 741
Henry, Cape, Virginia ... ill. 366
"Henry" (comic strip) ... 585
Henry Heide's candy factory: New York ... color plate VI, page 614
Henry VII Chapel, Westminster Abbey ... 744
Hepatica ... 225; color plate I, page 224
Hepatica americana. See *Hepatica.*
Hercules Powder Company: Mill ... ill. 624
Hereford (breed of cattle) ... 589
Herman Fortress, Narva, Estonia ... ill. 812
Hermes (asteroid) ... 2, 8
Hermits' cells, Ruins of: Turkey ... 779, 783, 791, 801
Hernández, José (poet) ... 586
Herzfeld, (Prof.) Ernst Emil ... 330
Hibiscus moscheutos (mallow) ... 229
Hibiscus oculiroseus (mallow) ... 229
Hibiscus trionum. See *Flower-of-an-hour.*
Hiccoughs, Musk used in treatment of ... 478
Hides ... 601
  Exported from Argentina ... 575
  Reindeer hide, Girl cleaning ... ill. 648
High Amana, Iowa ... 160
High jumping, Watussi excel at ... 548
High Knoll, Saint Helena (island) ... 85
Hightower, (Capt.) Jonathan ... 387
Hiiu Island, Estonia ... 805
Hikeu Bay, Marquesas Islands ... 42
Hill, (Lieut.) L. C ... 131
Hindenburg (dirigible) ... 25
Hindu merchants: Belgian Congo ... 525
Hipparchus (astronomer): Map projection devised by ... 130
Hippocamelus antisensis. See *Huemul, Peruvian.*
Hippocamelus bisulcus. See *Huemul, Chilean.*
Hippopotamuses: Sungue River, Mozambique ... duotone plate XV, page 541
Hispaniola (island), West Indies ... 704, 739
Historic Danzig: Last of the City-States. By William and Alicelia Franklin. 26 ills., Nov ... 677–696
Historical society: Alpine, Texas ... 455
Hitchhiker, Laredo, Texas ... color plate I, page 431
Hitler, Adolf ... 551, 694
Hittites, Roads built by: Turkey ... 764, 767
Hiva-Oa Island, Marquesas Islands ... 38–39
Hjortron (golden mountain raspberries) ... 655
"Hoary pea" (plant) ... 249
Hobart, Tasmania, Arrival of *Wyatt Earp* at ... ill. 138
Hoe, Wooden: Belgian Congo ... ill. 524

Page

Högakull (farm), Sweden: Life's Flavor on a Swedish Farm: From the Rocky Hills of Småland Thousands of Sturdy Citizens Have Emigrated to the United States. By Willis Lindquist. 23 ills., 1 quarter-page map, Sept. 393–414
Hogs: Iowa. ill. 160; color plate V, page 155
Holland Island Bar Lighthouse, Chesapeake Bay. 373
Hollick-Kenyon, Herbert. 131
Holmbom, Magnus (Lapp). 676
Holmes, Charles H.: Australia's Patchwork Creature, the Platypus: Man Succeeds in Making Friends with This Duck-billed, Fur-coated Paradox which Lays Eggs and Suckles Its Young. By Charles H. Holmes. 13 ills., Aug. 273–282
Holmes, Oliver Wendell. 165
"Holy Ghost Street," Danzig. 678
Home-coming, Iowa University. color plate II, page 152
Home (New Selima) Island, Cocos Islands. 69, 70, 71–74
Homer, Iowa. 179
Homestead, Iowa. 160
Honey production: Iowa. 143
"Honey War" (Missouri-Iowa). 164
Hoof-and-mouth disease. 477
Hoofs of reindeer and caribou. 481
Hookworm cause of anemia: Puerto Rico. 705
Hoop pines (trees): Australia. 62; ill. 59
Hoover, Herbert: Birthplace. 143
Horda, Sweden. 393
Hormigueros, Puerto Rico. 723, 728
Horn, Cape, South America. 131, 139
Horns of deer used as tools. 478
Horse latitudes (calms): Atlantic Ocean. 142
Horsemen fording the Rio Grande: Texas. ill. 444
Horsemint. 242
Horses
  Argentina. 571; color plate XV, page 599
  Estonia. ill. 827
  Iowa. color plate XVI, page 174
  Puerto Rico: Peddler and pack horse. ill. 708
  Sweden. ill. 404
  Texas. 430; ill. 446, 447; color plates IV, page 434; XIII, page 459
  Wild: Texas. 454
Horseshoe (hill), Yellowstone National Park. 116
Hospitals
  Iowa University. 164
  Meshed, Iran. 341
Hot Springs, New Mexico. 426
Hot Springs, Texas. 430
Hotel of the Volcanoes, Ngoma, Belgian Congo. ill. 522
Hotels
  Abisko, Sweden. 646
  Fort Dodge, Iowa. 179
  Iran. 325, 327, 334
  Ngoma, Belgian Congo. ill. 522
  San Juan. 709
  Tlacotalpan, Mexico. 193
Hound's-tongue (plant). 236
Huapango (dance): Mexico. 201
Hubble, (Dr.) Edwin P. 31
Hudson Canyon, Atlantic Ocean. 140
Huemul (deer). 492
  Chilean. 491, 493
  Peruvian. 492–493; color plate VII, page 491
Hueyapa, Mexico. 183, 197
Hueyapa, Arroyo, Mexico. 197, 198, 206
Hummingbirds: Nectar taken from cardinal flowers. 255
Hunchback (pinnacle), Rio de Janeiro. 283, 300, 301, 304; ill. 286, 289; color plates VI, page 296; XX, page 318
Hungary. 140
Huns (Asiatic tribe). 559
Hunting Wild Life with Camera and Flashlight (Shiras). 102
Huracán, Word "hurricane" derived from. 702
Hurricane Relief Commission, Puerto Rico. 738
Hurricane shelter: Puerto Rico. ill. 702
Hurricanes: Puerto Rico. 706–707
Husatec Indians: Mexico. 184
Huszt, Hungary. 560
Hyatt, John W. 617
Hybrid corn: Iowa. 159; ill. 145
Hydrangeas. 564
Hydroelectric plants
  Keokuk Dam, Iowa. 165
  Puerto Rico. 737; ill. 710
Hydrogen (gas). 4, 6, 7, 15, 25, 601
Hydrogen flares. 6–7
Hydroptes inermis. See *Chinese water deer*.
Hypoxis hirsuta. See *Yellow star grass*.

I

Ice barrier: Antarctica. 129, 136; ill. 134
Ice-free islands: Antarctica. 130, 138; ill. 134, 137
Ice sheet receding: Antarctica. 137, 138
Icebergs
  Antarctic region. 142
  North Atlantic Ocean. 142

Page

Ida County, Iowa. 179
Ida Grove, Iowa. 180
Igdrasil (boat): At Home on the Oceans: Whales and Sharks Make Exciting Neighbors for a Professor's Wife, Turned Able Seaman, On a Three-Year Voyage Around the World. By Edith Bauer Strout. 54 ills., 1 map, July. 33–86
Iguanas
  Marine: Galápagos Islands. 36; ill. 43
  Mexico. 194
Ilex paraguayensis (yerba maté). 587
Imam Riza, Shrine of: Meshed, Iran. 347, 349, 353; color plates I, page 339; II, page 340; III, page 341; VII, page 345
Imbaubas (trees): Brazil. 301
Immigration inspector: El Paso, Texas. ill. 448
Impatiens biflora. See *Jewelweed*.
Imperial Airways. 529
Imperial Chemical Industries, Limited: England. 632
Incesu, Turkey. 766
Independence Day: Mexico. 462
India, Rhesus monkeys come from. 706
Indian muntjac (deer). 505; color plate XIV, page 506
Indian Ocean. 67, 70, 71, 79, 129, 136
Indian paintings: Pecos Canyon, Texas. 439
Indianola, Iowa. 161
Indians
  Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. 183–218
  Iowa. 175, 176, 178, 179
  New Mexico. 418–419; color plate XV, page 461
"Industria Argentina" (label). 587
Industries
  Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By Frederick Simpich. 22 ills. in black and white, 26 ills. in color, Nov. 601–640
  From Nature's Hidden Building Blocks. 26 ills. in color from natural color photographs by Willard R. Culver. Nov. 609–640
Inka (Lapp girl). 648, 653
Inkpadutah (Sioux Indian). 168
Inoculating eggs with fever virus: Rio de Janeiro. 306; ill. 305
Insecticides. 624, 628
Insects combated with chemicals. 628; ill. 625, 626, 627
Insular Bureau of Mines: Puerto Rico. 728
Insular Forest Service: Puerto Rico. 712
Insular Legislature: Puerto Rico. 705
Insulation, Glass wool used for. 629
Insulation material. color plate XVI, page 640
Insurance companies: Des Moines, Iowa. 150
Inter-American Highway. 416, 462, 740
  Motorists: Laredo, Texas. color plate XVI, page 462
  Oxen and cart: Mexico. color plate XII, page 458
International Boundary Commission: United States-Mexico. 428, 453
International Bridge, Laredo, Texas. 431, 457; ill. 416; color plate I, page 431
International Ice Patrol. 142
International park planned for Big Bend region. 439
International Railway Bridge, Laredo, Texas: Gate. ill. 426
Intestinal worms attack deer. 477
Iodine used in polaroid glass. 605, 629
Iona (chapel): Hebrides Islands. gravure plate IV, page 748
Ionosphere. 6
Iowa
  Corn and Color in the Hawkeye State. 20 ills. in color from natural color photographs; 19 ills. by J. Baylor Roberts. Aug. 151–174
  Iowa, Abiding Place of Plenty: The State Where the Tall Corn Grows Provides the Nation with a Tenth of Its Food Supply. By Leo A. Borah. 15 ills. in black and white, 20 ills. in color, 1 two-page map, Aug. 143–182
  Agriculture. 143, 150, 161, 179; ill. 145; color plate XVI, page 174
  Capitol. 150; air view 149; color plate XIII, page 171
  Famous men and women. 143, 166, 177, 179
  Highways. 159, 175
  History. 144–145, 151, 164, 166, 168, 175, 178–179, 181–182
  Industries. 150, 165, 166, 173, 177; ill. 176
  Inhabitants. 144, 150, 153; color plates V, page 155; IX, page 167; XI, page 169
  Newspapers and magazines. 150, 166
  Population. 144
  State parks. 176, 179
  State song. 182
  Universities and colleges. 160–161, 164; color plates I, page 151; II, page 152; XII, page 170
Iowa City, Iowa. 145, 162, 164; color plates I, page 151; II, page 152

Page

Iowa College ... 159
Iowa River, Iowa ... 164; color plate I, page 151
Iowa Soldiers' Home, Marshalltown ... 178
Iowa State College, Ames ... 150, 164; color plate XII, page 170
Iowa State Highway Commission ... 159
Iowa State Highway Safety Patrol ... 159
Iowa State Historical, Memorial and Art Building, Des Moines ... air view 149
Iowa State Teachers' College, Cedar Falls ... 177–178
Iowa University, Iowa City ... 164; ill. 162; color plates I, page 151; II, page 152
Iowa Wesleyan, Mount Pleasant, Iowa ... 161
Ipanema (suburb), Rio de Janeiro ... 283, 284, 287, 299; ill. 286
Iran
  Gilded Domes Against an Azure Sky. 13 ills. in color from natural color photographs by Stephen H. Nyman. Sept ... 339–346
  Old and New in Persia: In This Ancient Land Now Called Iran a Modern Sugar Factory Rears Its Head Near the Palace of Darius the Great. By The Baroness Ravensdale. 20 ills. in black and white, 13 ills. in color, 1 two-thirds-page map. Sept ... 325–355
  Domes and minarets ... 330, 334, 335, 336, 338, 347, 353; color plates I, page 339; II, page 340; VI, page 344
  Dress ... 327, 329, 355; ill. 326, 334, 335, 348
  Landscape ... 325, 326, 330, 334, 338; ill. 327, 332, 350, 351
  Migration of tribes ... 336, 338
  Mosques ... 335, 336, 338, 347, 348, 349, 353; ill. 336; color plates I, page 339; II, page 340; III, page 341; VI, page 344; VII, page 345; VIII, page 346
  Palaces ... 326, 327, 336; ill. 331
  Police posts ... 336, 354–355; ill. 327
  Railroad ... 329, 337; ill. 337
  Roads ... 325, 329; ill. 327, 351
  Rock carvings ... 354; ill. 328, 352, 353, 354
  Rugs ... 334, 342; color plates V, page 343; VII, page 345
Irboska, Estonia ... 832
Iridaceae. See *Iris family*.
Iris ... 268; color plate XXIII, page 269
Iris family ... 268
Iris versicolor. See *Iris*.
Iron grillwork: Baltimore, Maryland ... ill. 390
Iron ore
  Antarctica ... 133, 138
  Puerto Rico ... 737
Ironweed ... 258; color plate XVIII, page 259
Irrigation: New Mexico ... 424, 426
Irrigation ditches
  Mesilla Dam, New Mexico ... air view 443
  Sweden ... 395
"IRT" (New York subway) ... 587
Isabela, Puerto Rico ... 721
Isabela Agricultural Substation, Puerto Rico ... 721
Isabela (Albemarle) Island, Galápagos Islands ... 36; ill. 41, 43
Isfahan, Iran ... 334–335; ill. 336; color plate VI, page 344
İskenderon, Hatay ... 560
Isla Grande, San Juan: Air base ... 698; air view 700; color plate II, page 714
Islander (steamer) ... 66, 71
Islands, Ice-free: Antarctica ... 130, 138; ill. 134, 137
"It Blinds the Goat" (plant) ... 430
Italian girls wearing synthetic textiles: New York World's Fair ... ill. 604
Italy ... 140
  Synthetic textiles ... 604, 622, 629
Iturbi, José (pianist) ... 592
Ivan the Terrible, Embroidery made by wife of: Estonia ... 831, 832
Ivangorod (fortress): Estonia ... 822; ill. 812
Ivory, Articles carved from walrus ... ill. 362
Ivory, Imitation ... 601, 602, 617
Ivorydale, Ohio ... 627, 630

J

J. W. Glise (schooner) ... ill. 86
Jack fruit trees: Brazil ... 299, 301
Jackdaws (birds): England ... 762
Jackson Hole country, Wyoming: Wapiti ... 485, 486; ill. 470
Jacksonville, Florida ... 33, 36, 86, 142
Jacob's-ladder (flower) ... 240
Jade, Imitation ... 601
Jájome, Puerto Rico ... 737
Jamaica (island), West Indies ... 33, 34, 84, 723
James, Jesse (outlaw) ... 416
James Bay, Galápagos Islands ... 35
Jamestown, Saint Helena (island) ... ill. 77, 78
Jamestown, Virginia ... 364, 366

Page

Jämtland, Sweden ... 674
Japan
  Silk exports ... 607–608
  Synthetic products ... 632
  World's largest producer of rayon ... 624
Jarana (musical instrument): Mexico ... 201
Javelina (peccary): Texas ... 440
Jefferson, Thomas ... 415
Jennie V (boat) ... 373
Jerez, Spain ... 559
Jerusalem, Palestine ... 763
Jerusalem artichoke (sunflower) ... 262
Jewelry made of synthetic materials ... 601, 602; color plates I–III, pages 609–611; VII, page 615
Jewelweed ... 231; color plate IV, page 230
Jezebel (Biblical character) ... 783
Jíbaro (mountaineer): Puerto Rico ... 737
Jimson weed ... 236
Joan of Arc ... 559
João VI (Portuguese king) ... 288, 299
Jockey Club, Buenos Aires ... 576
Jockey Club, Rio de Janeiro ... 288, 299; ill. 289; color plate XXIII, page 321
Joe-pye weed ... 258
Johansson, Carl ... 393, 396, 402, 408, 413, 414; ill. 395, 411, 412
Johansson, Jenny ... 393, 395, 396, 399, 402, 407, 408; ill. 394
Johansson, Lisa ... 394, 395, 396, 398, 399, 407, 408, 411, 413; ill. 394, 397, 403, 412
Johansson, Per ... 394, 395, 396, 402, 407, 408, 411, 412, 414
John, Abbot ... 742
John Deere Tractor Plant, Waterloo, Iowa ... 177
John Fletcher College, Oskaloosa, Iowa ... 161
John Morrell and Company, Ottumwa, Iowa ... 179
Johnson, Lowndes ... ill. 381
Johnson County, Iowa ... 164
Jokkmokk tribe: Lapland ... 653, 654, 655, 656
"Jonah's pillars" (towers): Turkey ... 765
Jones, John Paul: Log of ... ill. 362
Joseph Conrad (ship) ... 51, 86; ill. 62
Juárez, Benito Pablo ... 462
Judas (mentioned in writings of St. Brendan) ... 140
Juice, Papaya ... 711
Jukkasjärvi, Sweden ... 670, 673, 674; ill. 672
Jukkasjärvi District, Sweden ... 669
Juliana, Princess ... 675
"Jumping deer" (mule deer) ... 488
Jungle: Mexico: Vera Cruz ... ill. 207
Jungle Book (Kipling) ... 737
Jupiter (planet) ... 8, 14, 15, 16

K

Kaaba (shrine): Mecca, Saudi Arabia ... 8
Kadriorg, Estonia ... 833
Kadriorg Palace, Kadriorg, Estonia ... 833; ill. 828
Kafue Flats, Northern Rhodesia ... duotone plate VI, page 532
Kajar Dynasty ... 326
Kalaat Saman, Syria ... 701
Kalevipoeg (Kreutzwald) ... 803
Kalmias ... 255
Kanesville (Council Bluffs, Iowa) ... 182
Kansas City, Missouri ... 428
Kansas City, Mexico and Orient Railway ... 428
Karesuando woman: Lapland ... ill. 671
Kartjejaure, Lake, Sweden ... 641, 653
Kåta (Lapp tent) ... 641, 642, 674, 675; ill. 644, 667
Kautokeino, Norway ... 657
Kautokeino tribe, Lapp boys of ... color plate V, page 661
Kavanagh Building, Buenos Aires ... 562; ill. 569; color plates III, page 579; X, page 594
Kayseri, Turkey ... 763, 766–768, 777; ill. 778
Kazvin, Iran ... 325
Kebnekaise, Mount, Sweden ... ill. 651
Keeling, (Capt.) William ... 69
Keeling (Cocos) Islands: Indian Ocean ... 66, 67, 69, 70, 71, 74, 75, 79; ill. 71
"Kelly's Army" ... 150
Kent Island, Maryland ... 376; air views 384, 389
Kenya Colony, Africa ... 529, 542
Kenyon, Herbert. See *Hollick-Kenyon, Herbert*.
Keokuk, Iowa ... 164
Keokuk Dam, Mississippi River ... 165
Keota, Iowa ... 159
Kern County, California: Tule wapiti ... 485
Keron, Mount, Sweden ... ill. 646
Ketcham, Harriet A. ... 149
Kettles, Aluminum: Testing whistles of ... color plate X, page 634
Key, Francis Scott ... 383, 386, 392
Khan (inn): Turkey ... 765
Khartoum, Anglo-Egyptian Sudan ... 511
Khurasan (province), Iran ... ill. 351
Kibara Mountains, Belgian Congo ... 535

Page

"Kiek-in-de-Kök" (tower), Tallinn, Estonia...811; ill. 809
Kilauea (volcano), Hawaii...525–526
Kilıclar, Turkey...791
Kilimanjaro (mountain), Tanganyika..duotone plate II, page 528
Killingi, Sweden: Schoolhouses...ill. 673
King, George (airplane pilot)...697
Kingfish: Australia...ill. 66
Kipling, Rudyard...737
Kiruna, Sweden...645, 672; ill. 647
Kisenyi, Belgian Congo...522
"Kitchen, The" (Virunga volcanoes)...ill. 514
Kitchen in Swedish farmhouse...ill. 403
Kites used for research work on upper air...668
Kivu, Lake, Belgian Congo...511, 512, 513, 515, 522, 525, 543, 545; ill. 516, 518, 519, 525
Kivu District, Belgian Congo...511, 514, 524
Kivu Mountains, Africa: Road building...ill. 523
Klipspringer (mountain antelope)...525
Knickerbocker's History of New York (Irving)...164
"Knotweed"...232
Knoxville, Iowa...179
Kohtla, Estonia: Mining oil shale...ill. 824
Koidula, Lydia (poet)...805, 807
Kola Peninsula, U. S. S. R...657
Konitz, Poland...677
Krakatau (volcano), Sumatra...69
Krameria, Pink...244; color plate XI, page 245
Krameria secundiflora. See *Krameria, Pink*.
Kreenholm Cotton Mills: Estonia...825
Kreutzwald, F. R...803
Kubik Chorus: Buenos Aires...592
Kuhne, Jack: Europe's Northern Nomads (Lapps), 12 ills. in color from natural color photographs by Jack Kuhne. Nov...657–664
Kurds: Iran...ill. 348
Kurs (tribe): Estonia...820
Kvikkjokk, Sweden...675

L

L. J. Boats: Gibson Island...ill. 381
Laboratories, Chemical research: United States...631
Labrador Current, Atlantic Ocean...142
Laces named for localities in Europe...559
Lachesis Lapponica (Linnaeus' diary)...676
Lactuca pulchella. See *Lettuce, Blue*.
"La Cumparsita" (tango)...585
Ladder Hill, Saint Helena (island)...ill. 78
Ladyslipper
  Showy...271; color plate XXIV, page 270
  Yellow...271; color plate XXIV, page 270
Lafitte, Jean (pirate)...454
La Fortaleza (fortress), San Juan...698, 705
  Balcony of...color plate IX, page 729
Lagerlöf, Selma...670
Lagoon: Cocos Islands...ill. 71
Lagoons for evaporating salt: Puerto Rico..728; ill. 711
Laguna Madre, Texas...452
Laidoner, Johan...833
Lake, Simon...363
Lake View, Iowa...180
"Lakes" (dyes): Testing...color plate XV, page 639
Lamar Valley, Wyoming...116
Lambeth Walk (dance)...586
"Lambkill" (kalmias)...255
Lamento Borincano (song)...710
Laminated plastics...619; ill. 618
"La Morocha" (tango)...585
Lamp posts, Removable: International Bridge, Laredo...ill. 416
La Nación (newspaper)...572, 576
Land crabs
  Christmas Island...65–66; ill. 67
  Cocos Islands...75, 79
  Puerto Rico...ill. 722
Land grants: Texas...454
Land of the Southern Cross (Australia)...300
Landslide stopped with chemicals...630
Langgasser Tor (gateway), Danzig...ill. 692
Langley Field, Virginia...364
Langtry, Texas...439
"Lanital" (synthetic textile)...604, 622
Lantanas...240
La Paloma (song)...415
Lapland
  Europe's Northern Nomads (Lapps). 12 ills. in color from natural color photographs by Jack Kuhne. Nov...657–664
  Nomads of Arctic Lapland: Mysterious Little People of a Land of the Midnight Sun Live Off the Country Above the Arctic Circle. By Clyde Fisher. 28 ills. in black and white, 12 ills. in color, 1 page map. Nov...641–676
La Plata, Argentina...565, 572, 590; air view 589
Lapp Gate, Sweden...ill. 667
Lapporten (Lapp Gate), Sweden...ill. 667

Page

Lapps
  Europe's Northern Nomads. 12 ills. in color from natural color photographs by Jack Kuhne. Nov...657–664
  Lapps with sledge and reindeer..color plate II, page 482
  Nomads of Arctic Lapland: Mysterious Little People of a Land of the Midnight Sun Live Off the Country Above the Arctic Circle. By Clyde Fisher. 28 ills. in black and white, 12 ills. in color, 1 page map. Nov...641–676
  Costumes...648, 653, 656, 666; ill. 643, 648, 649, 650, 652, 666, 670, 671, 674, 675; color plates I–VIII, pages 657–664
  Dogs...641, 642, 653–654, 665; ill. 642, 666; color plates II, page 658; IV, page 660; VI, page 662
  Floor culture...642, 648, 654, 656, 675
  Food...648, 652, 653, 654, 655–656; ill. 652
  Reindeer and goats...641, 656, 665; ill. 643, 646, 647, 649, 671
  Religion...654, 672, 676; ill. 672
  Schools...674–675; ill. 670, 673, 675, 676
  Tents...642, 648, 656; ill. 667
  Tribes..641, 653, 656; ill. 650, 671; color plates V–VII, pages 661–663
Lappula floribunda. See *Stickseed*.
La Prensa (newspaper)...572, 573, 576
Laredo, Texas...441, 447, 457, 462, 740
Lares, Puerto Rico...728
Larkspur, Tall...225; color plate I, page 224
Larkspurs...225, 238
Las Cruces, New Mexico...419
Lathyrus maritimus. See *Pea, Beach*.
Lathyrus ornatus. See *Sweet pea, Ornate*.
Lathyrus splendens. See *Sweet pea, Crimson*.
Lava
  Cappadocian cones: Turkey...768
  Flowing into Lake Kivu...545; ill. 519
  Virunga range, Africa...511, 526, 550; ill. 546, 547
Lava lake: Virunga range, Africa...526, 543
Lava pinnacle: Galápagos Islands...ill. 40
Lava stream: Virunga range, Africa...526, 543; ill. 517
Lead mining: Iowa...175
League of Nations...551, 560, 679
Leahy, (Adm.) William D...729, 738; ill. 698
Leather, Imitation...601
Leather trousers worn by Lapps...color plates I, page 657; II, page 658; VIII, page 664
Leblon (suburb), Rio de Janeiro...283, 284, 287, 299; ill. 286
Lechwi (antelope): Northern Rhodesia..duotone plate VI, page 532
Le Claire, Antoine...166, 175
Le Claire, Iowa...175
Ledges State Park, Iowa...179
Lee, Robert E...165, 454
Leeward Group, Society Islands...43
Leeward Islands, West Indies...86
Legends and myths
  Estonia...803, 811, 827, 831–832
  Puerto Rico...723, 728
Le Mars, Iowa...161, 180
Lemmings (rodents)...670, 674; ill. 671
Lent bushes: Brazil...301
Leominster, Massachusetts: Making toothbrushes in color plate XI, page 635
Leonids (meteors)...14
Leopard (ship)...363
Leopards: Belgian Congo...524
Lepachys columnifera. See *Coneflower, Prairie*.
Leper colony: Puerto Rico...706
Les Sylphides (ballet)...592
Lettuce, Blue...256; color plate XVII, page 257
Levant States...560
Le Vie del Mondo (periodical)...576
Lewis and Clark expedition...181
Lezama Park, Buenos Aires...585, 590
Lianas: Brazil...301
Liatris, Button...258; color plate XVIII, page 259
Liatris scariosa. See *Liatris, Button*.
Liatris squarrosa (liatris)...258
"Liberty Tree," St. John's College, Annapolis...391
Libia, Italian North Africa...560
Libraries
  Buenos Aires: Outdoor...585
  Rio de Janeiro...288, 299; color plate XXI, page 319
Library of Congress: Plastics used in...619
Lichfield Cathedral...744; gravure plate VII, page 751
Licorice, Synthetic...601, 608, 624
Licorice root...608
Lieurance, Thurlow...162
Life belts stuffed with reindeer hair...659
Life's Flavor on a Swedish Farm: From the Rocky Hills of Småland Thousands of Sturdy Citizens Have Emigrated to the United States. By Willis Lindquist. 23 ills., 1 quarter-page map. Sept...393–414
Light
  Astronomical uses of...4–5

Page

Light (Cont.)
Flows through "Lucite" 619; ill. 607
Split into spectrum color plate VII, page 23
Ultraviolet 1, 6, 7
Light posts, Flowers on: Shenandoah, Iowa color plate XII, page 170
"Light year" (unit for expressing stellar distances) 3
Lighthouse keeper, Woman 379; ill. 386
Lighthouses
Cape of Good Hope ill. 75
Chesapeake Bay 373
New Zealand 55-56; ill. 58
San Juan color plate XIII, page 733
Lignite (coal)
Antarctica 130
Motor fuel made from 632
Lilac perfume, Synthetic color plate XIV, page 638
Liliaceae. See *Lily family.*
Lilium canadense. See *Lily, Canada.*
Lilium parryi. See *Lily, Western yellow.*
Lilium philadelphicum. See *Lily, Red.*
Lilium superbum. See *Lily, Turk's-cap.*
Lily
Canada 264
Red 264; color plate XXI, page 265
Turk's-cap 264
Western yellow 264
Yellow 264; color plate XXI, page 265
Lily family 264
Limbourg (province), Belgium 559
Lime used in insect poisons 626
Limestone caverns: Rodriguez Island 79; ill. 69
Limodorum tuberosum. See *Orchid, Grass-pink.*
Linaria vulgaris. See *Butter-and-eggs.*
Lincoln, Abraham 145, 182, 364
Lindbergh, (Col.) Charles A 139
Lindquist, Willis: Life's Flavor on a Swedish Farm: From the Rocky Hills of Småland Thousands of Sturdy Citizens Have Emigrated to the United States. By Willis Lindquist. 23 ills., 1 quarter-page map, Sept 393-414
Lingon (mountain cranberries) 655
Liniers (section), Buenos Aires 576
Linn County Courthouse, Cedar Rapids, Iowa 160
Linnaea borealis. See *Twinflower.*
Linnaeus, Carl 654, 667, 675-676
Linnés Hammarby, Sweden 668, 675
Linnaeus' cottage ill. 667
Linum lewisii. See *Flax, Blue.*
Lions: Portuguese East Africa duotone plate VIII, page 534
Lion's head (mountain), South Africa 80
Liquidambar (sweet gum) 251
Lirios, Mexico 218
Lisbon, Portugal 139, 575
Lithospermum canescens. See *Puccoon, Hairy.*
Lithospermum linearifolium. See *Puccoon, Fringed.*
Lithuania 560
Lithuanian women: Baltimore cannery ill. 388
Little America, Antarctica 131
"Little Bit of Heaven" (museum): Palmer School of Chiropractic 175
"Little Brown Church in the Vale," Bradford, Iowa 177
"Little King" (comic strip) 585
"Little Night" (Julien Dubuque) 175
"Liverleaf." See *Hepatica.*
Livingstone, David 536
Livs (tribe): Estonia 820
Llamas
Buenos Aires Zoo ill. 575
Acquired by Washington, D. C. Zoo 575
Loaceae. See *Evening star family.*
Lobelia, Blue 255; color plate XVI, page 254
Lobelia cardinalis. See *Cardinal flower.*
Lobelia syphilitica. See *Lobelia, Blue.*
Lobelias 255
Giant: East Africa 525; ill. 549
Lock, Roller dam: Mississippi River color plate VII, page 157
Locked horns of deer 471; ill. 480
Loco, Pink 247; color plate XII, page 246
Locomotives, Shay articulated: Christmas Island 63
Locoweed, Purple 247
Locoweeds 247
Logan, Frederic Knight 162
Lohengrin (opera), Scene from: Zoppot ill. 691
London, England 139, 142, 553
London Mercury (periodical) 576
Long, E. John: Puerto Rico: Watchdog of the Caribbean: Venerable Domain Under American Flag Has New Role as West Indian Stronghold and Sentinel of the Panama Canal. By E. John Long. 24 ills. in black and white, 23 ills. in color, Dec. 697-738
Long Garden Street, Danzig 689
Long-horned Ankole cattle: Ruanda, Africa ill. 544
Long Market (plaza), Danzig ill. 694
Longboats
St. Helena (island) ill. 81
Samoa 44; ill. 52

Page

Loon (bird): Sweden 412
Loosestrife 234; color plate VI, page 235
Loquillo unit, Caribbean National Forest, Puerto Rico 712
Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July 87-128
Lotteries
Puerto Rico 702; ill. 703
Turkey 802
Lotus flowers: Iowa color plate XI, page 169
Louisiana Purchase 415
Lowell, Percival 14, 16
Lowell Observatory, Flagstaff, Arizona 16
Lucas, Robert 164
"Lucite" (plastic) 619; ill. 607; color plates I-III, pages 609-611
Ludgate Circus, London 743
Ludwig, Emil 424
Luján (river), Argentina 591
Lukuga River, Belgian Congo 515
"Lumarith" (plastic) 617
Steering wheels made of color plate XVI, page 640
Lumber and lumber industry
Chemical treatment of wood 629-630
Estonia 818
Iowa 166, 175
Sweden 394-395
Luna Park: Buenos Aires 574
Lunch delivered in cans: San Juan, Puerto Rico ill. 707
Lund, University of, Sweden 674
Lungwort 236
Luossajärvi (lake), Sweden ill. 647
Lutecium (element) 560
Lutetia (ancient name for Paris) 560
Luther College, Decorah, Iowa 153, 161
Lutheran Church: College sponsored by 161
Lye: Use in soap making 627
Lymburner, J. H. 136; ill. 136
Lyngsfjord, Norway 662, 663
Lynnhaven Roads 364
Lyttleton, New Zealand 57

M

Maçan, Turkey 773, 777, 783, 789; color plates VI, page 774; XIV, page 798
McDonald Observatory, Mount Locke, Texas 28
Machete (knife) 737
Machine guns, Infantry using: Puerto Rico ill. 726
Madagascar (island), Indian Ocean 80
Madison, Wisconsin 166
Madrasahs (sacred colleges)
Isfahan, Iran 334
Kayseri, Turkey 767
Madre Mía (song) 710
Magellan, Ferdinand 57
Magic drum, Lapp 676; ill. 654, 655
Magma Copper Mine, Superior, Arizona 628
Magna Carta 560
Magnesia (district in ancient Greece) 560
Magnesium (element) 560
"Magnetic" anthills: Australia 63; ill. 64, 65
Magnetic force surrounding Earth 6
"Magnetic storms" 2, 6
Teletype message garbled by ill. 11
Magothy River, Maryland 389
Mahogany, Venezuelan, introduced into Puerto Rico 712
Maidan-i-Shah (plaza), Isfahan, Iran 334
Mailboxes
British-type: Buenos Aires color plate XIII, page 597
Polish: Danzig ill. 693
Maize-wood plant, Dubuque, Iowa 175
Makeevka, U. S. S. R. 560
Malae (market place), Pago Pago, Samoa 44
Malays (people): Cocos Islands 66
Mallow
Bush 229
Crimson-eye rose 229
High 229; color plate III, page 228
Mission 229
Musk 229
Poppy 229; color plate III, page 228
Red false-mallow 229; color plate III, page 228
Mallow family 229
Malmö, Sweden 393; air view 401
Malmöhus Castle, Malmö, Sweden air view 401
Maloney, John: Chesapeake Odyssey: An 18-foot Sailboat Follows the Course of Captain John Smith around This Spacious Bay of History, Commerce, Sea Food, and Nautical Lore. By John Maloney. 32 ills., 1 page map, Sept 357-392
Malva sylvestris. See *Mallow, High.*
Malvaceae. See *Mallow family.*

Page

Malvastrum ambiguum (false-mallow) 229
Malvastrum coccineum. See *False-mallow, Red.*
Malvastrum fasciculatum (bush mallow) 229
Mameyes, Puerto Rico 712
Mamillaria vivipara. See *Cactus, Purple.*
Mammals
  Antlered Majesties of Many Lands. 23 ills. in color from paintings by Walter A. Weber. Oct. 479–510
  Australia's Patchwork Creature, the Platypus: Man Succeeds in Making Friends with This Duck-billed, Fur-coated Paradox which Lays Eggs and Suckles Its Young. By Charles H. Holmes. 13 ills., Aug. 273–282
  Deer of the World: As Workers, Pets, and Graceful "Living Statuary" in Parks and Estates, These Versatile Creatures Have Endeared Themselves to Mankind. By Victor H. Cahalane. 20 ills. in black and white, 23 ills. in color, Oct. 463–510
  Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July 87–128
  Stalking Big Game with Color Camera. 28 ills. in color from natural color photographs by Wendell Chapman. July 89–128
  Wings Over Nature's Zoo in Africa. 20 ills. in duotone from photographs by Reginald A. Bourlay. Oct. 527–542
Mancuso, Ralph (sculptor) ill. 621
Manganese mine: Puerto Rico 728
Mangoes: Mexico 197
Mangosteen (fruit) 722
Mangue Canal, Rio de Janeiro 305
"Maní" (peanut vender's cry) 571
Manihi (island), Tuamotu Islands 42
Mann, (Dr.) William 575
Manono, Belgian Congo 535
Manor house: Tagel, Sweden 409
Manzanita bush: Sequoia National Park ill. 509
Maps
  Africa: Western Rift Valley and surrounding country 515
  Atlantic Ocean. Special supplement in colors. July.
  Buenos Aires, Location of, and the estuary of the Río de la Plata 565
  Chesapeake Bay region 361
  Estonia 805
  Europe: Central Europe and the Mediterranean. Special supplement in colors. October.
  Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec. 739–740
    Inset of St. Thomas 740
    Inter-American Highway shown 740
    Naval bases 739
  Iowa 146–147
  Iran 329
  Lapland 645
  Map of 1512 (text) 299
  Mexico: New center of Maya culture 184
  Mexico, Central America, and the West Indies. Special supplement in colors. December.
  Rio Grande (river), Course of the 419, 424, 427, 428, 440, 453
  Society's New Map of Central Europe and the Mediterranean. Text accompanying special map supplement in colors. Oct. 559–560
    Boundaries changed 559–560
    Index, Value of 560
    Place names changed 560
  Submarine contour, used in navigation (text) 140
  Sweden, Southern 396
  Turkey and Near East 767
  Virunga Mountains, Africa (inset) 515
  World: Route of the *Igdrasil* 38
  World That Rims the Narrowing Atlantic: Latest Ten-color Map Supplement Shows Four Continents and New Transatlantic Air Routes Which Make This Ocean Only One Day Wide. By James M. Darley. 1 ill., July 139–142
    Air routes 139
    Area included 139
    Inset of Panama Canal 139
    Projection 139
    Scale 140
    Symbols and notes 139, 140
Mar del Plata (resort), Argentina ill. 568
Maracas (gourd rattles) 710
Mårbacka (Lagerlöf) 670
Marchena (Bindloe), Galápagos Islands 35
Marconi (town), Libia 560
Marden, Luis 439, 448, 571, 585, 586
  Buenos Aires—Metropolis of the Pampas. 24 ills. in color from natural color photographs by Luis Marden and Maynard Owen Williams. Nov. 577–600

Page

Marden, Luis (Cont.)
  Riatas and Romance on the Rio Grande. 24 ills. in color from natural color photographs; 23 ills. by Luis Marden. Oct. 431–462
María, Texas 428
Maria I (Portuguese queen) 288
Maria Van Diemen, Cape, New Zealand 51
Maricao Insular Forest, Puerto Rico 712, 724
Marienburg (fortress), Germany 677; ill. 684
Marienkirche (church), Danzig 680; ill. 682, 690
Marigold, Marsh 225; color plate I, page 224
Marijuana (drug) smuggled into Texas 427, 453
Marine biological station, Pinheiro Island 306
Mariners' Museum, Newport News, Virginia 358, 362, 364; ill. 363
Mariscal Canyon, Rio Grande, Texas 430
Markets
  Buenos Aires: Newspaper market 573
  Ponce, Puerto Rico 728
  Rio de Janeiro: Open-air 285
  Sake, Belgian Congo ill. 545
  Tallinn, Estonia ill. 823
  Värnamo, Sweden 402, 405
Marquesans (people) 38–39, 42; ill. 49, 50, 52
Marquesas Islands, Pacific Ocean 36, 38; ill. 49
Marriage laws: Cocos Islands, Indian Ocean 74–75
Mars (planet) 1, 8, 14, 15, 25; ill. 9
  Painting of color plate IV, page 25
Marshalltown, Iowa 178
Martín Fierro (Hernández) 586
Martin Vas (island), Atlantic Ocean 142
Mary (English queen) 744
Mary Partridge (boat) 373
Maryland: Chesapeake Odyssey: An 18-foot Sailboat Follows the Course of Captain John Smith around This Spacious Bay of History, Commerce, Sea Food, and Nautical Lore. By John Maloney. 32 ills., 1 page map, Sept. 357–392
Maryland Yacht Club 386
Masjid-i-Jumeh, Isfahan, Iran 335
Masjid-i-Shah, Isfahan, Iran 335; ill. 336
Masjid-i-Shaik Luft Allah, Isfahan, Iran 335; color plate VI, page 344
Mask, Clay: Vera Cruz expedition ill. 208
Mason City, Iowa 177
Massachusetts Institute of Technology, Cambridge 16
Massilia (ship) 575
Masuria, East Prussia, Germany 560
Masurium (element) 560
Matamoros, Mexico 452, 454
Match industry: Estonia 818
Matés (gourds): Argentina 586; color plates VIII, page 584; XI, page 595
Matson, Eric
  Multicolored Cones of Cappadocia. 20 ills. in color from natural color photographs by Eric Matson. Dec. 769–800
  Photographs of ill. 782, 783
Matto Grosso, Brazil 493
Matuku, Fiji Islands 50
Mauritius (island), Indian Ocean 73, 80
"Mauve" (coal-tar dye) 608
Mawson, (Sir) Douglas 133, 137
  Photograph of ill. 133
Maximilian (emperor of Mexico) 454
Maxwell, John 179
Maxwell, Ross 439
Maya calendar 214, 216
Mayagüez, Puerto Rico 712, 715, 721–722, 723, 725
Mayas: Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. 183–218
Mayflower (yacht) 371
Maytag, F. L. 159
Mazaca (Kayseri, Turkey) 767
Mazama americana. See *Brocket, Red.*
Mazama simplicicornis. See *Brocket, Brown.*
Mazanderan (province), Iran 325
Mazolith (stone) 150
Meadow beauty 253; color plate XV, page 252
Meadow beauty family 253
Meat exported from Argentina 573, 576
Mecca, Saudi Arabia: Meteorite in Kaaba 8
Medal, Lapp author receiving ill. 670
Medicine made from deer 478
Mediterranean region: Society's New Map of Central Europe and the Mediterranean. Text accompanying special map supplement in colors. Oct. 559–560
Melastomaceae. See *Meadow beauty family.*
Mellon Institute, Pittsburgh, Pennsylvania 632, 635
Melons: Turkey 792; ill. 787
Melville, Herman (author) 39, 49, 141
Memel, Germany 140, 560
Mendoza, Pedro de 561, 571, 574
  Statue of: Buenos Aires 561

Page

"Meniki" (Marquesan word for United States) 38
Menthaceae. See *Mint family.*
Mentzelia aurea (evening star) 253
Mentzelia multiflora (evening star) 253
Mentzelia ornata. See *Evening Star.*
Mercury (planet) 14
Meredith, Edwin T. 143
Merrimack (ironclad) 364
Mertensia alpina. See *Mertensia, Alpine.*
Mertensia sibirica. See *Mertensia, Mountain.*
Mertensia virginica. See *Virginia bluebell.*
Mertensia
  Alpine 236
  Mountain 236
Meshed, Iran ..... 330, 347, 354; color plates I, page 339; II, page 340; III, page 341; VII, page 345; VIII, page 346
Mesilla Dam, New Mexico ..... air view 443
Messick, Virginia 357
Metalliferous ore in rocks: Antarctica 133, 138
Metals imported by United States 603
Metatarsal gland on hind legs of deer ..... ill. 473
Meteor Crater, Arizona ..... 8, 19; air view 13
Meteorites ..... 1, 6, 7, 8; ill. 29, 32; color plate III, page 19
  Craters believed formed by ..... 8, 19; air view 13
Meteorology: Importance of winds 142
Meteors 8, 11, 14
Methane (gas) 15
Methanol 607
Methodist (log canoe) 371
Methodist Church: Colleges in Iowa founded by 161
Methodist churches: Smith Island 372
Metropolitan Museum, New York City 16
Mexican International (railway) 440
Mexican school children in parade ..... color plate XVI, page 462
Mexican War 427, 454
Mexican woman baking cakes: Zapata County, Texas ..... ill. 429
Mexico 740
  Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. 183–218
  Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By Frederick Simpich. 28 ills. in black and white, 24 ills. in color, 6 maps, Oct. 415–462
  Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec. 739–740
  Riatas and Romance on the Rio Grande. 24 ills. in color from natural color photographs; 23 ills. by Luis Marden. Oct. 431–462
Mexico, D. F. (Mexico City) 416, 447, 462, 740
Mexico, Gulf of 415, 421, 454
  Pelican flying over ..... color plate VIII, page 438
Miami, Florida 697, 727
Mickey Mouse (cartoon character) 585
Middle Amana, Iowa 160
Midnight sun: Lapland 654
"Midsummer Night's Dream" (movie) 625
Mihr, Iran 347
Mikeno, Mount, Belgian Congo 514
Miles River Yacht Club, St. Michaels 376
Milford Sound, New Zealand ..... 51; ill. 60
Military Club: Buenos Aires 576
Milk
  Fawn drinking: California ..... ill. 464
  Goat's: Lapland 652–653, 654, 671
  Reindeer: Lapland 652–653, 656
Milk bucket, Lapp ..... 656; ill. 649
Milking reindeer, Lapp woman ..... ill. 649
Milky Way (galaxy) 25, 26, 27, 28, 30, 31
Miller, Bob 357, 364, 365, 375, 389, 392
Miller's Hollow (Council Bluffs, Iowa) 182
Mills built into cones: Turkey ..... 777; ill. 782
Milton, John (poet) 511
Milu (deer) ..... 497, 504; color plate XIII, page 503
Milwaukee (battleship) 140
Milwaukee Depth, Atlantic Ocean 140
Mimosa pudica (sensitive plant) 244
Mineral springs: Coamo Springs, Puerto Rico 737
Mines and mining
  Chemical air-conditioning in 628
  Iowa 179
  Terlingua, Texas 430
Ministry of Finance, Buenos Aires ..... color plate VI, page 582
Ministry of Foreign Affairs, Buenos Aires 562
Ministry of Foreign Affairs, Rio de Janeiro: Library 299
Ministry of Health and Education, Rio de Janeiro 289
Ministry of Justice, Rio de Janeiro 288

Page

Ministry of Labor, Commerce, and Industry, Rio de Janeiro 289
Mint family 242
Miramar, Puerto Rico 698, 709
Mirror on street corner: Buenos Aires ..... color plate XIII, page 597
Mirror Plateau, Yellowstone National Park 116
"Miss Brazil" (bathing beauty) ..... color plate VII, page 297
Mississippi River ..... 116, 166; color plate VI, page 157
Missouri River 181, 428
Missouri Waltz 162
Mistflower ..... 258; color plate XVIII, page 259
"Mit" (baby monkey) 737
Mithradates Eupator (king of Pontus) 258
Mitre Peak, New Zealand ..... ill. 60
Moala (island), Fiji Islands 50
Moats used to confine elephants 537
Mobjack Bay, Virginia 357
Moby Dick (Melville) 49, 141
Moccasin flower ..... 271; color plate XXIV, page 270
Mockingbirds: Galápagos Islands 35
Mogollon Mountains, New Mexico 119
Mohammedans ..... 339, 349, 353; color plates II, page 340; VII, page 345
Molasses
  Alcohols made from 602
  Puerto Rico 727, 737
Molds used in making plastics ..... 620, 622; ill. 606
Molecules, Study of: Du Pont laboratory 603
Moline, Illinois 166
Möller, Anton (artist) 689
Mona (island), Puerto Rico 738
Mona Passage, Hispaniola-Puerto Rico 697
Monarda didyma (bergamot) 242
Monarda media (bergamot) 242
Monarda mollis. See *Bergamot, Wild.*
Monarda punctata (horsemint) 242
Monasteries
  Estonia 826, 827, 831
  Ruins of: Turkey ..... 779, 791, 801; ill. 788; color plates IV, page 772; V, page 773; XII, page 796; XV, page 799; XVI, page 800
Moneses (herb) ..... 255; color plate XVI, page 254
Moneses uniflora. See *Moneses.*
Money, Bone: Cocos Islands 71
Monitor (ironclad) 364
Monkey bread (fruit): Christmas Island ..... ill. 68
Monkey farm: Pinheiro Island 306
"Monkey island," Puerto Rico ..... 706, 737–738; ill. 738
Monkshoods 100, 225, 238
Monocotyledons (plants) 264
Monroe Palace, Rio de Janeiro ..... 288; color plates III, page 293; XXI, page 319
Montana ..... 88, 103, 118; color plates I, page 89; II, page 90; XI, page 107; XIX, page 123
Monte Vista, Colorado 417
Montenegro 560
Monterey, Palace of, Salamanca, Spain 705
Montevideo, Uruguay 561, 585
Montezuma (Aztec ruler) 192
Monuments
  Baltimore, Maryland ..... ill. 390
  Buenos Aires ..... 561, 564; ill. 567, 569; color plates X, page 594; XIII, page 597
  Cathedral: Tallinn 811, 816
  Puerto Rico 721
  Washington, D. C. ..... color plate VII, page 24
Moon 7
  Surface of ..... 7; ill. 31; color plates I, page 17; VI, page 22
Moons of Jupiter and Saturn 15–16
Moore, (Capt.) Harry 379, 386
Moore, W. Robert
  Carioca Carnival. 34 ills. in color from natural color photographs by W. Robert Moore. Sept. 291–322
  Rio Panorama: Breath-taking is This Fantastic City amid Peaks, Palms, and Sea, and in Carnival Time It Moves to the Rhythm of Music. By W. Robert Moore. 12 ills. in black and white, 34 ills. in color, Sept. 283–324
Mooréa (island), Society Islands 43
Moose ..... ill. 465, 474, 476
  Alaska ..... 480–481; color plate I, page 479
  Common: Related to Alaska moose 479
  European 480
  Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July 87–128
  Shiras ..... 87; ill. 102
  Stalking Big Game with Color Camera. 28 ills. in color from natural color photographs by Wendell Chapman. July 89–128
Moravia (German protectorate) 140, 560
Mordecai: Legendary tomb of 332
Moreton Bay pine trees: Australia ..... ill. 59

Page

Mormons 181–182
Morning-glory family 238
Morningside College, Sioux City, Iowa 161
Morro do Castello (hill): Rio de Janeiro 288, 304
Morrow, Honoré Willsie 179
Moschus moschiferus. See *Musk deer.*
Mosques
  Iran ..... 335, 336, 338, 347, 348, 349, 353; ill. 336; color plates I, page 339; II, page 340; III, page 341; VI, page 344; VII, page 345; VIII, page 346
  Kayseri, Turkey 767
Mosquito control: Rio de Janeiro 305
Mosquitoes: Sweden 668
"Mothe" (Fijian word for good-by) 50
"Mother Goose Is on the Loose" (song) 418
Moths
  Hawk 251
  Sphinx 251
Motion picture camera, Lapp woman looking through, color plate III, page 659
Motion picture film, Pyroxylin base of 624
Motor fuel from lignite 632
Motorbuses, Air-conditioned: Damascus-Baghdad 628
Motorcycles
  Ascension Island ..... ill. 76
  Buenos Aires: Chimney sweeps ..... ill. 570
  Swedish farm girl with motorcycle ..... ill. 400
Mottlau River, Danzig ..... 696; ill. 552, 553, 555, 688
Moulton, (Dr.) F. R. 5
Mount McKinley National Park, Alaska 485
Mount Pleasant, Iowa 161
Mount Vernon, Iowa 162
Mount Vernon Place, Baltimore, Maryland ..... ill. 390
Mount Wilson Observatory, Pasadena, California .. 2, 3, 15, 16
Mountain antelope: Belgian Congo 525
Mountain Creek Montana: Bull moose ... color plate II, page 90
Mountain lions: Texas 430, 439
Mountain Point, Gibson Island 391
Mounted Grenadiers (troops): Buenos Aires .... 562, 563; color plate VII, page 583
Movies (cinema)
  Ascension Island 85
  Rio de Janeiro 288, 319
  Three-dimensional 605
Mozambique ..... duotone plates I, page 527; V, page 531; VII, page 533; XI–XIII, pages 537–539
Mud baths: Estonia 809
Mufumbiros (Virunga mountains) ..... ill. 514
Mule deer ..... 98, 488; ill. 472, 508, 509; color plates IV, page 92; VIII, page 96; V, page 487
Mules
  Iowa ..... ill. 161
  Laredo, Texas ..... ill. 441
"Mules" (electric locomotives): Panama Canal .... ill. 37
Mullahs: Iran 347, 353
Multicolored Cones of Cappadocia. 20 ills. in color from natural color photographs by Eric Matson. Dec 769–800
Mummers ("La Cumparsita"): Montevideo 585
Municipal Beach, Buenos Aires .. color plate IV, page 580
Municipal Building, Tehran, Iran ..... ill. 333
Municipal Theater, Rio de Janeiro 288
Muñoz Rivera, Luis: Statue of .. color plate VIII, page 720
Muntiacus muntjak. See *Indian muntjac.*
Murals: New York World's Fair ..... ill. 606
Murjek, Sweden 674
Murray, (Sir) John 63
Muscatine, Iowa 166
  Button manufacture ..... ill. 176
Muscle Shoals, Alabama 607
Museum of Comparative Zoology, Harvard University . 497
Museums
  Decorah, Iowa ..... color plate III, page 153
  Estonia 820
  Linnés Hammarby, Sweden 668
  Mariner's Museum, Newport News, Virginia .. 358, 362, 364; ill. 363
  Open-air: Sweden 405, 407
  Palmer School of Chiropractic: Iowa 175
  Puerto Rico 720
  Qum, Iran 330
  Stockholm, Sweden 654, 676
Music and musicians
  High school bands: Iowa University ..... ill. 162
  Mexico: Vera Cruz ..... 202; ill. 205
  Puerto Rico 710
Music festival, High school: Iowa City ..... ill. 162
Musical instruments
  Buenos Aires ..... 586; ill. 565
  Mexico ..... 201; ill. 205
  Rio de Janeiro 323
Musk
  Natural 602
  Synthetic 601, 602
  Used in making perfumes 504, 505, 506

Page

Musk deer ..... 464, 478, 504–505, 602; color plate XIV, page 506
Musongwe lion ..... duotone plate VIII, page 534
Mussolini, Benito 560
Mustard family 227
"Mutt and Jeff" (comic strip) 585
Muzzles of reindeer 481
My Four Antarctic Expeditions: Explorations of 1933–39 Have Stricken Vast Areas from the Realm of the Unknown. By Lincoln Ellsworth. 9 ills., 1 page map, July 129–138

N

Nadir, Shah 326, 331
Nails, Hand-forged
  Cocos Islands 74
  Turkey 765
Naksh-i-Rustum, Iran ..... 336; ill. 328
Napoleon, Iowa 164
Narva, Estonia ..... 819, 822, 825; ill. 812
Narva-Jõesuu, Estonia 825
Narva River, Estonia ..... ill. 812
Nasturtium 231
Natal, Brazil 139
Natanz, Iran 336
National Academy of Design 16
National Arts Club, New York City 16
National Belgian Horse Show, Waterloo, Iowa ... 174, 177
National Capital Amateur Astronomers Association, Washington, D. C.: Members of ..... ill. 4
National Geographic Magazine 576
  List of articles and maps giving background on European war 550
  1937 eclipse paintings reproduced in 16
  Prized by natives of Fiji 50
  Revista Geográfica Americana inspired by 573
National Geographic Society
  Expeditions
    Deep-Sea Expedition, Bermuda 140
    National Geographic Society–U. S. Navy Eclipse Expedition (1937) 16
    Vera Cruz: Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug 183–218
  Flag: Headquarters of Vera Cruz Expedition .ill. 190, 211
  Maps
    Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec 739–740
    Society's New Map of Central Europe and the Mediterranean. Text accompanying special map supplement in colors. Oct 559–560
    World That Rims the Narrowing Atlantic: Latest Ten-color Map Supplement Shows Four Continents and New Transatlantic Air Routes Which Make This Ocean Only One Day Wide. By James M. Darley. 1 ill., July 139–142
  Members: Hotel proprietor, Buenos Aires 564, 571
  Membership
    Buenos Aires 585
    Mauritius (island) 73
  Photographic survey of the Rio Grande (1938) 415
National Guard: Iowa ..... color plate VI, page 156
National Historical Museum, Stockholm, Sweden .654, 676
National Library, Rio de Janeiro .... 288; color plate XXI, page 319
National Museum, Mexico City 217
National Park Institute, Brussels 511
National Parks Administration, Buenos Aires 562
National Zoological Park, Washington, D. C 575
Naufragio (song) 710
Navajo girl: New Mexico ..... color plate XV, page 461
Naval Air Station, Hampton Roads 363
Naval Air Station, San Juan, Puerto Rico 714
Naval bases
  Caribbean region 739
  Indicated on map of Atlantic Ocean 139
Naval Club, Rio de Janeiro 288
Naval Radio Station, Greenbury Point, Maryland 391; air view 384
Naval school, Rio de Janeiro 289
Navassa Island, Caribbean Sea 84
Navy Club: Buenos Aires 576
Navy Wireless Station, San Juan, Puerto Rico 707
Navy Yard, Rio de Janeiro: Submarine base .... color plate XXII, page 320
Neale, Sam 430
Nebulae 3, 29
Necklace worn by pet deer ..... ill. 469
Needlework: Puerto Rico .707, 721; color plate V, page 717
Nelly (Swedish farm girl) ..... ill. 413
Neptune (planet) 14, 16, 27

Page

Neptunia (ship) ... 575
Nets, Fishing
  Lake Kivu, Africa ... ill. 516
  Rio de Janeiro ... ill. 302; color plate IV, page 294
  Sweden ... 411; ill. 410
Neutrality Patrol: Puerto Rico ... 700; air view 700; ill. 701
Nevşehir, Turkey ... 780
New Basin, Capetown, South Africa: *Igdrasil* anchored in ... 80
New Brunswick, New Jersey: Du Pont laboratory color plate XIV, page 638
New Garden Street, Danzig ... 689
New Mexico ... 119
  Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By Frederick Simpich. 28 ills. in black and white, 24 ills. in color, 6 maps, Oct ... 415–462
New Mexico, University of ... 419
New Selima (Home) Island, Indian Ocean ... 69, 70, 71–74
New World Symphony (Dvořák) ... 176
New York City ... 140, 142
New York World's Fair
  Automobile, Transparent ... ill. 606
  Italian girls wearing synthetic textiles ... 604
  Translucent statue ... ill. 621
New York Zoological Park ... 273
New Zealand ... 129
  At Home on the Oceans: Whales and Sharks Make Exciting Neighbors for a Professor's Wife, Turned Able Seaman, On a Three-year Voyage Around the World. By Edith Bauer Strout. 54 ills., 1 map, July ... 33–86
New Zealand Sounds ... 51, 53, 55–57; ill. 60, 64
Newfoundland ... 140, 142
Newport, (Capt.) Christopher ... 366
Newport News, Virginia ... 358, 360
Newport News Shipbuilding and Dry Dock Company 360; ill. 370
News of the Universe: Mars Swings Nearer the Earth, Sunspots Wane, and a Giant New Telescopic Eye Soon Will Peer Into Unexplored Depths of Space. By F. Barrows Colton. 23 ills. in black and white, 10 ills. in color, July ... 1–32
Newsboy statue: Rio de Janeiro ... ill. 301
Newspaper market: Buenos Aires ... 573
Newspapers
  Buenos Aires ... 576
  Des Moines, Iowa ... 150
Newton, (Capt.) Willie ... 357; ill. 358
Newton, Iowa ... 159
Ngau (island), Fiji Islands ... 50
Ngoma, Belgian Congo ... 522
Niaufoõ (island), Pacific Ocean ... 47
Nichols, Henry W ... ill. 32
Nicholson, (Dr.) Seth B ... 15
Nicolet National Forest, Wisconsin: Virginia deer ... ill. 468
Nictheroy, Brazil ... 290, 316; color plate XVIII, page 316
Niemen River, Europe ... 559
Niğde, Turkey ... 766
Nightshade ... 236
  Black ... 236
  Silver ... 236; color plate VII, page 237
Nile (Ludwig) ... 424
Nile Valley, Africa ... 512
Nina (ship) ... 139, 141
Nina Gongo (volcano). See *Tshanina Gongo*.
Nishapur, Iran ... 347
Nitrates
  Artificial: Manufactured in United States ... 605, 607
  Natural ... 605, 607
Nitric acid ... 624
  Used to dissolve silver ... color plate XII, page 636
Nitrogen ... 601
Njulja, Mount, Sweden ... 649, 668, 669
Njunjes, Mount, Sweden ... 676
Noaides (sorcerers) ... 655
Nob, Legendary site of: Palestine ... 764
Nogat River, Danzig-East Prussia ... ill. 684
Nomads of Arctic Lapland: Mysterious Little People of a Land of the Midnight Sun Live Off the Country Above the Arctic Circle. By Clyde Fisher. 28 ills. in black and white, 12 ills. in color, 1 page map, Nov ... 641–676
Norfolk (island), Pacific Ocean ... 57
Norfolk, Virginia ... 363, 364
Normal school: Cedar Falls, Iowa ... 177–178
Norman Conquest ... 560
Norman style of architecture ... 741
Norregard farm, Småland Province, Sweden ... 413
Norse mythology, *Igdrasil* the Tree of Life in ... 33
North Cape, New Zealand ... 51, 62
North Dakota, Buffalo herd slaughtered in ... 110, 117
North Equatorial Current, Atlantic Ocean ... 141
North Island, New Zealand ... 58
North Keeling (island), Indian Ocean ... 75
Northern lights ... 2
Northern Rhodesia ... 532

Page

Northrop, (Dr.) Stuart A ... 419
Northwest Harbor, Baltimore, Maryland ... air view 383
Norwegian-American Museum, Decorah, Iowa color plate III, page 153
Norwich Cathedral ... air view 762; gravure plate XV, page 759
Notches cut in ears of reindeer: Lapland ... 647
Notre Dame, Convent of: San Juan, Puerto Rico ... 707
Nova Pictoris (star) ... 5
Nova Scotia, Canada ... 740
"Novae" (exploding stars) ... 28
Nueva Chicago stockyards, Buenos Aires ... 574
Nueva Pompeya (section), Buenos Aires ... 576
Nuevo Laredo, Mexico ... 426, 458
Nuku-Hiva (island), Marquesas Islands ... 39, 49
Nuolja, Mount, Sweden. See *Njulja*.
Nutrition, Studies of: Puerto Rico ... 706
Nyamlagira (volcano): We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eight Months' Study. By Dr. Jean Verhoogen. 28 ills., 1 two-thirds-page map, Oct ... 511–550
Nydala, Sweden ... 402
"Nylon" (synthetic textile) ... 601, 603, 607, 623
  Stockings made of ... color plate XIII, page 637
  Used for toothbrush bristles ... color plate XI, page 635
Nyman, Stephen H.: Gilded Domes Against an Azure Sky (Iran). 13 ills. in color from natural color photographs by Stephen H. Nyman. Sept ... 339–346

O

Oban, New Zealand ... 56
Obelisks
  Plaza de Mayo, Buenos Aires ... 562, 563
  Rio de Janeiro ... 288
Observation tower: Rio Grande ... ill. 449
Observatory: Danzig ... ill. 552
Odebolt, Iowa ... 159, 180
Odocoileus columbianus. See *Columbia blacktail deer*.
Odocoileus hemionus. See *Mule deer*.
Odocoileus virginianus. See *Virginia deer*.
Oenothera biennis (evening primrose) ... 251
Oenothera caespitosa (evening primrose) ... 251
Oenothera lavandulaefolia. See *Evening primrose, Trumpet*.
Oenothera missouriensis (evening primrose) ... 251
Oenothera serrulata. See *Evening primrose, Prairie*.
Ogden, Iowa ... 174
Oil refining: Importance of chemistry ... 632
Oil shale industry: Estonia ... 818; ill. 824, 825
Öjaby Church, Småland Province, Sweden ... 406, 407
Ojeda, Alonzo de ... 739
Ojinaga, Mexico ... 448
  Mountain chapel ... 428
Okoboji Lake, East, Iowa ... 180
Okoboji Lake, West, Iowa ... 180; color plate X, page 168
Old and New in Persia: In This Ancient Land Now Called Iran a Modern Sugar Factory Rears Its Head Near the Palace of Darius the Great. By The Baroness Ravensdale. 20 ills. in black and white, 13 ills. in color, 1 two-thirds-page map, Sept ... 325–355
Old Bill (pet deer) ... ill. 508
Old Front Street, Burlington, Iowa ... 166
"Old Horse Lane," Danzig ... 678
Old Point Comfort, Virginia ... 359–360
Old Zion Church, Burlington, Iowa ... 166
Oleander ... 234
Olivos (section), Buenos Aires ... 590
Omar Khayyam: Tomb of ... 347
Onagraceae. See *Evening primrose family*.
Oñate, Juan de ... 424
"One-Boat" (resting place): Ascension Island ... ill. 76
Onion
  Field ... 264
  Nodding ... 264
  Pink ... 264; color plate XXI, page 265
Onopordon acanthium. See *Thistle, Scotch*.
Onyx, Synthetic ... ill. 618; color plate III, page 611
Opera, Outdoor: Zoppot ... 696; ill. 691
Opera houses
  Rio de Janeiro ... color plate XXI, page 319
  Tallinn, Estonia ... 834; ill. 804
Opuntia engelmanni (prickly pear) ... 253
Opuntia humifusa. See *Prickly pear, Western*.
Opuntia polyacantha. See *Prickly pear, Spiny*.
Opuntias (prickly pears) ... 253
Orange City, Iowa ... 180
  Wooden shoe maker ... color plate IX, page 167
Orchid
  Grass-pink ... 271; color plate XXIV, page 270
  Purple fringed ... 268; color plate XXIII, page 269
  Showy ... 268; color plate XXIII, page 269
Orchid family ... 268
Orchidaceae. See *Orchid family*.
Orchis spectabilis. See *Orchid, Showy*.
Ordzhonikidze, U. S. S. R. ... 560

Page

Oreotragus oreotragus. See *Klipspringer.*
Organ Mountains, Brazil ... 304
Organic Act of 1917: Puerto Rico ... 702
Orion (constellation) ... color plates III, page 19; VIII, page 24
Orion's Belt (constellation) ... 592; color plate VIII, page 24
Orizaba (Citlaltepetl), Mexico ... 192
Ornithorhynchus anatinus. See *Platypus.*
Ornithorhynchus paradoxus ... 273
Ortahisar, Turkey ... 779
Oskaloosa, Iowa ... 161, 162
Osman, Fevsi (Turkish schoolmaster): Photograph of ... ill. 783
Ostrich hunting: Argentina ... 571, 572; ill. 590, 591
Ostriches, South American: Argentina ... 571, 572, 590; ill. 591
Oswaldo Cruz Institute, Rio de Janeiro ... 306
"Oswego tea" ... 242
Othake, Pink ... 256; color plate XVII, page 257
Othake sphacelata. See *Othake, Pink.*
Ottumwa, Iowa ... 178–179
Our Lady of Guadeloupe (church), Puerto Rico, color plate VIII, page 720
Ovens
  Swedish farmhouse ... ill. 403
  Texas ... 454; ill. 429
Owl, Carved stone: Mexico ... ill. 191
Oxalidaceae. See *Oxalis family.*
Oxalis corniculata (woodsorrel) ... 231
Oxalis family ... 231
Oxalis violacea. See *Woodsorrel, Violet.*
Oxcarts
  Brazil ... color plate VIII, page 298
  Mexico: Vera Cruz ... ill. 215
  Tamaulipas, Mexico ... color plate XII, page 458
  Turkey ... ill. 765
Oxen
  Puerto Rico ... color plates III, page 715; VI, page 718
  Rio de Janeiro suburb ... color plate VIII, page 298
  Tamaulipas, Mexico ... color plate XII, page 458
  Turkey ... ill. 765
Oxeye, Rough ... 262; color plate XX, page 263
Oxford, Maryland ... 375, 377
Oxygen (gas) ... 7, 15, 601
Oxytropis lambertii. See *Loco, Pink.*
Oyster dredgers: Chesapeake Bay ... air view 380
Oysters, Fossil: Texas ... 439

P

Pacific Forest Industries ... 620
Pacific Ocean ... 44, 47
Pack horses: Rocky Mountains ... 88, 97, 104
Pack ice: Antarctica ... 129
Packing plants
  Iowa ... 179, 181
  La Plata, Argentina ... 572–573; air view 589
Padre Island, Gulf of Mexico ... 454
Paepae (stone platform): Marquesas Islands ... 38
Pago Pago, Samoa ... 43–44
Pahlevi, Riza Shah ... 325, 329, 348
  Likeness woven into curtain ... ill. 330
Pahlevi, Iran ... 325, 329
Paint used to protect wood ... 602
Painting: "Westward" ... color plate XIII, page 171
Paints, Pigments for ... 617
Palaces: Iran ... 326, 327, 336; ill. 331
Palacio Salvo (building), Montevideo ... 562, 594
Paldiski, Estonia ... 805
Palermo Livestock Show, Buenos Aires ... 592
Palermo Parks, Buenos Aires ... 563, 592; color plates IX, page 593; XIII, page 597
Palermo race track, Buenos Aires ... 563
Palmas, Cape, Africa ... 140
Palmer, B. J. ... 175
Palmer, D. D. ... 175
Palmer Land, Antarctica ... 133
Palmer School of Chiropractic, Iowa ... 175
Palms (trees): Rio de Janeiro, 299; color plate III, page 293
Pålnoviken, Sweden ... 667
Palomar, Mount, California: Observatory at ... 2, 3
Pampas deer ... 493; color plate VIII, page 494
Pan American Airways
  Airbase: San Juan ... 608
  Brownsville, Texas ... 454
Pan American Airways Clippers, Rio de Janeiro ... 289; ill. 302
Pan American Highway. See *Inter-American Highway.*
Panair do Brasil seaplanes ... 289
Panama ... 34, 740
Panama, Gulf of ... 34
Panama Canal ... 607, 713, 726, 739, 740
  Igdrasil going through lock ... ill. 37
Pandanus, Basket woven from: Marquesas Islands ... 39
Pánuco River, Mexico ... 184
Pão de Assucar (Miss Sugar Loaf) ... 290

Page

Pão de Assucar (peak), Rio de Janeiro ... 283, 284, 290, 301; ill. 286; color plates I, page 291; XVIII, page 316
Papaloapan River, Mexico ... 188, 197
Papaveraceae. See *Poppy family.*
Papayas (fruit)
  Marquesas Islands ... 39
  Puerto Rico ... 721; ill. 711
  Society Islands ... ill. 54
Paper imported by Argentina from Finland ... 573; ill. 572
Paperbark tree: Virunga range, Belgian Congo ... 525
Paquetá Island, Guanabara Bay ... 290, 297, 304; color plate XXIV, page 322
"Para-Lastik" (paste) ... 166
Parachute, Provisions dropped with ... 131
Parades: Mexican schoolchildren ... color plate XVI, page 402
Paradise Lost (Milton) ... 511
Parakeets, Australian ... 573
Paraná de las Palmas (river), Argentina ... 591
Paraná Delta, Argentina ... 564, 590
Paraná River, South America ... 590
Parasites, Studies of: Puerto Rico ... 706
Parasites of deer ... 477
Parengarenga Harbour, New Zealand ... 51
Paris Exposition: Photograph of doe and twin fawns exhibited ... 475
Park ranger and deer: Sequoia National Park, California ... ill. 472
Parking meter: El Paso, Texas ... color plate IV, page 434
Parking spaces, Underground: Buenos Aires ... 587; ill. 586
Parks
  Buenos Aires ... 563, 585, 592; color plates I, page 577; VI, page 582; IX, page 593; X, page 594; XIII, page 597; XIV, page 598
  Puerto Rico ... 707
Parliament, House of, Tehran ... 327
Parma, Italy ... 559
Pärnu, Estonia ... 809, 816, 819
Parr, Charles H ... 176
Parrots: Mexico ... 194; ill. 193
"Parson Lane," Danzig ... 678
Parsons College, Fairfield, Iowa ... 160
Paşa Baca, Turkey ... 791
"Paso del Norte" (pass), Texas ... 427
Pasteur, Louis ... 623
"Pastor" (goatherder) ... 430
Pasturage rights of Lapps ... 665
Patapsco (river), Maryland ... 382, 386; air view 383
Patent leather ... 601, 625; color plate I, page 609
Patents, U. S.
  First patent issued ... 626, 632
  No. 2,115,886 ... 631
Paterson Inlet, New Zealand ... 56
"Patriarch": Petseri, Estonia ... ill. 832
Päts, Konstantin (president of Estonia) ... 816, 828
  Photograph of ... ill. 804
Patuxent River, Maryland ... 391
Pau brasil (tree) ... 299
Pau mulato (tree) ... 299
Paul I (Russian czar) ... 478
Pavements, Mosaic: Rio de Janeiro ... 288; ill. 301, 303, 324; color plates III, page 293; XXI, page 319
Pea
  Beach ... 249
  Crimson sweet ... 249
  Ornate sweet ... 249; color plate XIII, page 248
  Partridge ... 249; color plate XIII, page 248
Pea family ... 244
Peabody Conservatory of Music, Baltimore ... ill. 300
Peacock Throne, Gulistan Palace, Tehran ... 326; ill. 331
Peanut venders: Buenos Aires ... 571; ill. 570
Pearl fishing: Thursday Island ... 63
"Pearlwort" (plant) ... 236
Peat used as fuel: Estonia ... 817
Pecos (river), New Mexico-Texas ... 439; ill. 442; color plate III, page 433
Pecos Canyon, Texas ... 439
Peddler and pack horse: Puerto Rico ... 708
Pedicularis canadensis. See *Wood betony, Yellow.*
Pedicularis ornithorhyncha (plant) ... 240
Pedrarias (Dávila, Pedrarias) ... 739
Peipsi, Lake, Estonia-U. S. S. R. ... 803, 825
Pelée, Mount, Martinique ... 739
Pelicans
  Australia ... 63
  Buenos Aires Zoo ... color plate XII, page 596
  Gulf of Mexico ... color plate VIII, page 438
Pella, Iowa ... 161
  Dutch ... color plates V, page 155; XV, page 173
Pembroke Peak, New Zealand ... 51
Peña, (Pres.) Roque Sáenz ... 567
Penasco, New Mexico ... 424
Penguin Cove, Galápagos Islands ... 36
Penguin eggs sold by South African government ... 81
Penguins
  Adélie: Princess Elizabeth Land ... ill. 135
  Emperor: Princess Elizabeth Land ... 135
  Jackass: South Africa ... 81; ill. 72

Page

Penha Church, Rio de Janeiro....color plate V, page 295
Pens, Fountain, manufactured by Sheaffer.....165–166
Pentstemon
  Clustered.....238
  Cobaea.....238
  Giant.....238; color plate VIII, page 239
  Sand.....238; color plate VIII, page 239
Pentstemon ambiguus. See *Pentstemon, Sand.*
Pentstemon centranthefolius. See *Scarlet bugler.*
Pentstemon cobaea. See *Pentstemon, Cobaea.*
Pentstemon confertus. See *Pentstemon, Clustered.*
Pentstemon grandiflorus. See *Pentstemon, Giant.*
Pentstemons.....238
"Pepper City" (street), Danzig.....678
Père David's deer. See *Milu.*
Perfidia (song).....710
Perfumes
  Musk used in making.....504, 505, 506
  Synthetic.....601, 602; color plate XIV, page 638
Perkin, William Henry (chemist).....608, 631
Perpendicular style of architecture.....741
Perry (brig).....356
Perseids (meteors).....14
Persepolis, Iran.....326, 335–336
Persia. See *Iran.*
Persia and the Persian Question (Lord Curzon).....325
Persian gazelle-hounds: Turkey.....766
Persian rugs....334; color plates V, page 343; VII, page 345
Pestle for grinding meal: Africa.....ill. 549
Petalostemum candidum (prairie clover).....247
Petalostemum purpureum. See *Prairie clover, Pink.*
Petèca (game).....290
Peter the Great.....828, 833
Peterborough Cathedral....ill. 742; gravure plate XII, page 756
Petra, Trans-Jordan.....768
Petropolis, Brazil.....304
Petseri, Estonia.....826
  Church procession in.....ill. 830
Petseri Monastery, Estonia.....826, 827, 831
Petunia.....236
Peyote (plant).....430
Phalanges (toes of hind feet of deer).....493
Phenol.....619
Philadelphia, Pennsylvania.....626
Philip II (king of Spain).....744
Phillips, Bert (artist).....418, 419
Phlox
  Iowa.....color plate XIV, page 172
  Meadow.....240; color plate IX, page 241
Phlox family.....240
Phlox maculata. See *Sweet william, Wild.*
Phlox pilosa. See *Phlox, Meadow.*
Phobos (satellite), Mars as seen from....color plate IV, page 20
Phosphate quarries: Christmas Island.....63, 65, 66
Phosphates.....605
"Phosphors" (chemicals).....628–629
Photography
  Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July.....87–120
  Photographic survey of the Rio Grande.....415
  Stalking Big Game with Color Camera. 28 ills. in color from natural color photographs by Wendell Chapman. July.....89–128
Photography, Aerial
  Wings Over Nature's Zoo in Africa. 20 ills. in duotone from photographs by Reginald A. Bourlay. Oct.....527–542
Phrygians, Meteorite worshiped by.....8
Physalis heterophylla. See *Ground-cherry, Clammy.*
Physalis lobata. See *Ground-cherry, Purple.*
Pickersgill Harbour, New Zealand.....55
Pidgeon, (Capt.) Harry.....66
Piedras Negras, Mexico.....440
Pigeons
  Christmas Island.....66
  New Zealand.....56
  Turkey.....777, 801
Pigeons, Passenger.....148, 176
Pigs
  Christmas Island.....ill. 67
  Direction Island.....67, 71
Pigs Is Pigs (Butler).....166
Pike, Zebulon.....416
"Pikk Hermann" (tower), Tallinn, Estonia...811; ill. 813
Pilar Church, Buenos Aires.....564
Pilgrimages: Canterbury Cathedral.....741
Pilgrims
  Moslem: Iran....339, 349, 353; color plates II, page 340; VII, page 345
  Petseri, Estonia.....ill. 831
Pillars of Hercules, Strait of Gibraltar.....140
Pilsen, Bohemia.....560

Page

Pima County, Arizona, Meteorite that fell in.....ill. 29
Pine, Lodgepole: Rocky Mountains.....88, 99
Pine marten (American sable): Rocky Mountains 88, 99; ill. 98, 114
Pine trees
  Materials made from.....608, 632
  Sweden.....394, 412
Pinheiro Island, Rio de Janeiro.....306
Pink
  Clove.....232
  Fire.....232; color plate V, page 233
  Indian.....232
Pink family.....232
Pink House, Buenos Aires.....561
Pinolillos (ticks).....201
Pinta (ship).....139, 141
Pipe containing water for irrigation: Puerto Rico..ill. 710
Pirámide de Mayo (monument), Buenos Aires..color plate VI, page 582
Pirita, Estonia.....833
  Finger-wrestling at.....ill. 806
Pit for baking bread: Iran.....ill. 355
Pitch.....619, 620
Pittsfield, Massachusetts: Factory.....620
Pizarro, Francisco.....739
Planetarium, Hayden, New York City.....ill. 12
Planets.....4, 5, 14, 15–16, 25
"Plaskon" (plastic).....617
"Plastacele" (plastic): Birds on hat....color plate II, page 610
Plastics
  Automobile body made of transparent plastic...ill. 606
  Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By Frederick Simpich. 22 ills. in black and white, 26 ills. in color, Nov.....601–640
  From Nature's Hidden Building Blocks. 26 ills. in color from natural color photographs by Willard R. Culver. Nov.....609–640
Plata, Río de la....561, 565, 574, 591; ill. 566; color plates III, page 579; IV, page 580
Plate, Plastic, molded by machine.....ill. 606
Plato (philosopher).....140
Platypus (mammal)
  Australia's Patchwork Creature, the Platypus: Man Succeeds in Making Friends with This Duck-billed, Fur-coated Paradox which Lays Eggs and Suckles Its Young. By Charles H. Holmes. 13 ills., Aug.....273–282
  Bill....273, 281, 282; ill. 272, 274, 275, 278, 279
  Clucks and hisses.....282
  Feet.....273; ill. 272, 275, 278
  Food.....273, 274–275, 282; ill. 279
  Fur.....273; ill. 272, 274, 278, 279
  Habitat.....276; ill. 277
  Nest.....273, 277; ill. 278
  Sight and hearing.....275, 281
  Size.....281; ill. 278
  Spurs, Poison.....273, 280, 281
  Swimming habits.....281, 282; ill. 281
  Young.....281; ill. 278
Playa Humacao, Puerto Rico.....737
Playa Ponce, Puerto Rico.....728
Plaza Británica, Buenos Aires.....ill. 569
Plaza de Colón, San Juan, Puerto Rico.....705
Plaza de Mayo, Buenos Aires.....562
  Traffic policeman.....ill. 564
Plaza del Congreso, Buenos Aires....color plates I, page 577; XIV, page 598
Plaza Hotel, Buenos Aires.....562
Plaza Italia, Buenos Aires.....587
Plaza Once de Septiembre, Buenos Aires.....592
Plaza San Martín, Buenos Aires....562; color plate X, page 594
Plazas
  Ponce, Puerto Rico.....color plate VIII, page 720
  Tallinn, Estonia.....ill. 811
Plenas (songs): Puerto Rico.....710
Plovers: Australia.....63
Pluto (planet).....14, 16, 25, 27; ill. 7
Plymouth Rock chickens: Iowa.....ill. 177
Plywood made from birch: Estonia.....818
Plywood plank, Elephant testing.....ill. 620
Plzeň (Pilsen), Bohemia.....560
Pneumonia contracted by deer.....477
Pocomoke Sound, Virginia-Maryland.....365
Poinciana
  Dwarf.....244
  Royal.....244, 712
Poinsettia.....229
Point Lookout, Maryland.....392
Poland.....140, 677, 678, 696
  War Clouds Over Danzig and Poland's Port (Gdynia). 8 ills. from photographs. Oct...551–558
Polar Plateau: Antarctica.....137
Polaroid glass.....605, 629
Polaroid sheet.....ill. 605

Page

Polemoniaceae. See *Phlox family.*
Polemoniums, Blue ... 240
Police
  Danzig ... ill. 685
  Tres Zapotes, Mexico ... 201
Police stations: Turkey ... 765, 768
Polish Corridor ... 677
Polish women: Baltimore cannery ... ill. 388
Polo field, Ancient, Isfahan, Iran ... 334; color plate VI, page 344
Polygonaceae. See *Buckwheat family.*
Polygonum pensylvanicum. See *Heartsease.*
Polytechnic Institute, San Germán, Puerto Rico ... 728
Pomme blanche (plant) ... 249
Pomorze (Polish Corridor) ... 677
Ponce, Puerto Rico ... 728, 736, 737
Ponce de León, Juan ... 697, 705, 714, 721, 728
Pontiac (automobile), Transparent: New York World's Fair ... ill. 606
Pontoons on automobile: Rio Grande, Texas ... ill. 452
Pony hitched to parking meter: El Paso, Texas ... color plate IV, page 434
Popcorn production: Iowa ... 179
Popeye (cartoon character) ... 585
  Statue of: Crystal City, Texas ... ill. 450
Poppy family ... 227
Porfirio Díaz (Piedras Negras), Mexico ... 440
Porpoises: Pacific Ocean ... 38; ill. 46
Port Bell, Uganda ... 511
Port Louis, Mauritius (island) ... 80; ill. 73
Port Mathurin, Rodriguez Island ... 79
"Port of Missing Ships" (Sargasso Sea) ... 141
Porteños (citizens of Buenos Aires) ... 576
Portland cement factories: Iowa ... 177
Pôrto, Portugal ... 559
Porto Edda, Albania ... 560
Portuguese East Africa ... 534
Portulacaceae. See *Purslane family.*
Post Office, Barrel: Galápagos Islands ... ill. 44
Post Office Bay, Santa María, Galápagos Islands ... 36
Potash ... 605
Potash content of lava: Virunga range ... 524
Potato family ... 236
Potato schnapps: Estonia ... 803
Potatoes: Estonia ... 803
Potomac River, United States ... 392
Pottery, Rayy ... 327
Pottery making: Belgian Congo ... ill. 545
Poweshiek, Horace ... 178
Praça Floriano Peixoto, Rio de Janeiro ... 288; color plate XXI, page 319
Praça Mauá, Rio de Janeiro ... 284, 324; ill. 284
Praça Paris, Rio de Janeiro ... 284, 288, 304, 324; ill. 286
Prairie clover, Pink ... 247; color plate XII, page 246
Pre-Cambrian period: Antarctica ... 138
Precious materials, Synthetic ... 601, 602; ill. 618; color plates I, page 609; II, page 610; III, page 611
Precision instruments, Sapphires used in ... 737
Prehistoric pictures of antlered deer ... 463
Presbyterian Church: Colleges established in Iowa by ... 160
Present-day Nippon (periodical) ... 576
Preservation Inlet, New Zealand ... 55
President Hoover (ship) ... 360
Presidential Palace, Buenos Aires ... color plate VI, page 582
Presidio, Texas ... 428
Presses used in making plastics ... 620, 622; ill. 606
Pretzel, Sign in shape of: Tallinn, Estonia ... ill. 826
Prickly pear, Man burning spines off: Texas ... color plate XII, page 458
Prickly pear
  Spiny ... 253; color plate XV, page 252
  Western ... 253; color plate XV, page 252
  Yellow ... 253
Primrose, Birdseye ... 234; color plate VI, page 235
Primrose family ... 234
Primula farinosa. See *Primrose, Birdseye.*
Primulaceae. See *Primrose family.*
Prince Igor (ballet) ... 592
Princess Elizabeth Land: Antarctica ... 133, 136, 138; ill. 134, 135, 137
Pringle, (Dr.) J. A. ... ill. 145
Printing inks, Pigments for ... 617
Procession, Church: Estonia ... ill. 830
Procter and Gamble Company ... 627, 630, 631
Prominences, Solar ... ill. 15
"Promised Land of the Saints" (medieval saga) ... 140
Pronghorns (American antelope) ... 118; color plates IX–XIII, pages 105–109
Proxima Centauri (star) ... 27
Prunella (plant) ... 242; color plate X, page 243
Prunella vulgaris. See *Prunella.*
Prussia, Germany ... 678
Pskov, U. S. S. R. ... 832
Psoralea, Prairie ... 249; color plate XIII, page 248
Psoralea esculenta. See *Pomme blanche.*
Psoralea tenuiflora. See *Psoralea, Prairie.*

Page

Publishing houses: Des Moines, Iowa ... 150
Puccoon ... 236
  Fringed ... 236; color plate VII, page 237
  Hairy ... 236
Pudu, Chilean ... 492; color plate VII, page 491
Pudu pudu. See *Pudu, Chilean.*
Pueblo, Mexico ... page 462
Pueblo Indians: New Mexico ... 418–419
Puerta da Tierra, San Juan Island, Puerto Rico ... 705, 707
Puerto Rican Department, U. S. Army ... 705
Puerto Rico ... 740
  Puerto Rico: Watchdog of the Caribbean: Venerable Domain Under American Flag Has New Role as West Indian Stronghold and Sentinel of the Panama Canal. By E. John Long. 24 ills. in black and white, 23 ills in color. Dec. ... 697–738
  Agriculture ... 709, 721, 722–723, 728, 737; ill. 711, 723, 725; color plates III, page 715; VI, page 718; VII, page 719; XII, page 732
  Airports and defense ... 697–698, 721; air views 699, 700; ill. 701, 726; color plate II, page 714
  Education ... 710, 712; ill. 709
  Forests and forestry ... 712; ill. 724; color plate XV, page 735
  Imports and exports ... 705
  Industries and manufacturing ... 705, 707, 709, 721–722, 737; ill. 711, 727; color plates V, page 717; VII, page 719; XII, page 732
  Medical research ... 705, 706; ill. 706
  Plants ... 722; ill. 706, 711, 723; color plates VII, page 719; XII, page 732; XV, page 735
  Roads and highways ... 712, 721, 728, 737
  Puerto Rico Polychromes. 23 ills. in color from natural color photographs by Edwin L. Wisherd. Dec. ... 713–736
Puerto Rico, University of ... 712, 721; ill. 709
Puerto Rico Reconstruction Administration ... 707, 709
Puerto Rico Trough, Atlantic Ocean ... 140
Pueyrredón (street): Buenos Aires ... 564
Pulka (Lapp sled) ... 643, 656, 665; color plate III, page 659
Pulpit: Cathedral of St. Peter and St. Paul, Washington, D. C. ... 741
Pulpwood, Spruce, used to make cellulose ... 622
Pumice, Volcanic
  Cappadocian cones ... 768, 777
  Direction Island ... 60
Puncheon of molasses: Barbados (island) ... ill. 84
Purísima (song) ... 710
Purslane family ... 232
Pursley, Jim (fur trader) ... 415
"Putte" (horse) ... 405, 414; ill. 404
Puysegur Light, New Zealand ... 55
"PX cloth" (synthetic textile): Book covers ... color plate IV, page 612
Pygmies: Belgian Congo ... 512, 514
"Pyralin" (plastic): Toilet set made of ... color plate III, page 611
Pyrethrum flowers ... 628
Pyrola, Green ... 255; color plate XVI, page 254
Pyrola chlorantha. See *Pyrola, Green.*
Pyroxylin ... 624

Q

Quail shipped from Piedras Negras, Mexico ... 440
Quaker Oats plant ... 161
Quaresma bushes: Brazil ... 301
Queen Mary (ship) ... 28, 619
Quick, Herbert ... 744
Quicksilver mining camp: Terlingua, Texas ... 430
Quinine used in polaroid glass ... 605, 629
Qum, Iran ... 330, 347

R

Raccoon River, Iowa ... 150
Racecourses
  Rio de Janeiro ... 299; ill. 289; color plate XXIII, page 321
  Tehran, Iran ... 327
Races, Automobile: Estonia ... 809
Races, Boat
  Chesapeake Bay region ... 375–376, 380; ill. 368, 369, 381
  Iowa ... color plate X, page 168
Races, Horse: Rio de Janeiro ... ill. 289
Radio: Sweden ... 408
Radio, Short-wave, Effect of sunspots on ... 1, 6, 7
"Radio mirror" (ionosphere) ... 6, 7
Radio waves ... 6
Radish, Wild ... 227
Ragweed ... 256
Ragwort, Golden ... 256; color plate XVII, page 257
Raiatea Island, Society Islands ... 43
Railings, Removable: International Bridge, Laredo ... ill. 416
Railroad stations
  Danzig ... 678; ill. 679
  Davenport, Iowa ... 175

Page

Railroads
Iowa....145; ill. 182
Iran....329, 337; ill. 337
Pecos River, Texas....ill. 442
Rio de Janeiro....300
"Rainbirds" (white-bellied storks)....ill. 530
Ramah, Palestine....764
Ramsgate, England....559
Ranch, Pet gophers on: Nevada....color plate XVI, page 112
Ranch house: Argentina....571–572
Ranch life: Argentina....571–572
Ranger (ship)....362
Rangifer arcticus. See *Caribou, Barren-ground.*
Rangifer caribou. See *Caribou, Woodland.*
Rangifer montanus. See *Caribou, Mountain.*
Rangifer tarandus. See *Reindeer.*
Ranunculaceae. See *Buttercup family.*
Ranunculus glacialis. See *Buttercup, Mountain.*
Rappahannock Spit, Virginia....374
Raspberries, Golden mountain: Sweden....655
Rat Creek, Colorado....416
Rath Packing Plant, Waterloo, Iowa....177
Rats: Cocos Islands, Indian Ocean....79
Ravensdale, Baroness: Old and New in Persia: In This Ancient Land Now Called Iran a Modern Sugar Factory Rears Its Head Near the Palace of Darius the Great. By The Baroness Ravensdale. 20 ills. in black and white, 13 ills. in color, 1 two-thirds-page map, Sept....325–355
Rawlinson, (Sir) Henry....353, 354
Rayon (synthetic textile)....601, 622, 623, 624; ill. 603; color plates I, page 609; III, page 611; VIII, page 616
Rayy (Rhages), Iran....329, 330
Rugs washed in mineral spring....color plate V, page 343
Real del Monte Mines, Pachuca, Mexico....457
Recoleta (section), Buenos Aires....576
Recoleta Cemetery, Buenos Aires....564; ill. 569
Red Beach, Rio de Janeiro....color plate I, page 291
Red Cross: Aid given Smith and Tangier Islands....372
Red deer....504; color plate XIII, page 503
Red maids (plants)....232
Red military cloth used by Lapps....653, 656
Red River (tributary of the Mississippi)....416
Red Sea....512
"Red shift" (astronomical effect)....31
"Red snow": Sweden....665–666
Redbuds....244
Regatta clubs: Rio de Janeiro....290
Regattas
Labor Day: Gibson Island....ill. 368
San Juan harbor....color plate XIV, page 734
Reindeer....463, 478, 481; ill. 466, 467; color plate II, page 482
Lapland....641, 656, 671; ill. 643, 646, 647, 649
Reindeer cheese....655
"Reindeer flower" (buttercup): Sweden....669; ill. 649
Reindeer oxen....656, 665; ill. 643
Reindeer sinews, Thread made of....654
Reindeer-skin bags....642, 652
Reindeer skins used by Lapps....654, 656; color plate V, page 661
Reis, (Dr.) José Oliveira....304
Religious processions: Puerto Rico....723
Repparfjord district, Norway....658
Reservoir, Rio Grande: Colorado....415
Resht, Iran....325
Resins
Natural....617, 619, 620
Synthetic....620; color plate II, page 610
Statue made of phenolic resin....ill. 621
Resolution (ship)....55
Retiro district, Buenos Aires....571, 573
Reval, Estonia. See *Tallinn, Estonia.*
Reval, Castle of, Estonia....803
Revele tribe: Estonia....803
Revista Geográfica Americana (magazine)....573
Revue des Deux Mondes (periodical)....576
Rhages, Iran....329
Rhea (South American ostrich)....571, 572, 590; ill. 591
Rhenium (element)....560
Rhesus monkeys: Puerto Rico....706, 737–738; ill. 738
Rhexia virginica. See *Meadow beauty.*
Rhine (province), Germany....560
Rhodesian and Nyasaland Airways, Limited....527
Rhododendrons....255
Rholfs, Matthais....175
Rhubarbs....232
Riachuelo (section): Buenos Aires....561, 585–586, 590; ill. 574, 588; color plate V, page 581
Riata, Cowboy swinging: Texas....color plate VII, page 436
Riatas and Romance on the Rio Grande. 24 ills. in color from natural color photographs; 23 ills. by Luis Marden. Oct....431–462
"Rib-faced deer" (Indian muntjac)....505
Rice cakes, Japanese sika deer are fond of....501, 502

Page

Richards, (Comdr.) G. H.: Quoted on waterfalls in New Zealand....53
Richie, Lake, Michigan: Moose....ill. 474
Riga, Latvia....805
Riga, Gulf of....803
Rigging blocks: Mariners' Museum, Newport News. ill. 363
Rinderpest (cattle plague)....477, 533, 544
"Ring, The" (meteorite)....ill. 29
Rio Chama (Rio Grande tributary)....424
Rio de Janeiro, Brazil....139, 142
Carioca Carnival. 34 ills. in color from natural color photographs by W. Robert Moore. Sept. 291–322
Rio Panorama: Breath-taking Is This Fantastic City amid Peaks, Palms, and Sea, and in Carnival Time It Moves to the Rhythm of Music. By W. Robert Moore. 12 ills. in black and white, 34 ills. in color, Sept....283–324
Airport....288, 289; ill. 302; color plate XXII, page 320
Beaches....284, 290; ill. 287; color plates I, page 291; VI, page 296; VII, page 297; XIX, page 317
Boulevards, streets, and parks....284, 285, 288; ill. 284, 287, 303, 324; color plates III, page 293; XIII, page 311; XVII, page 315; XXI, page 319
Cafés....288, 315
Carnival....306, 323–324; color plates IX–XVI, pages 307–314
Christ, Statue of....283, 300; ill. 286; color plates VI, page 296; XX, page 318
Coat of arms, National....300
Harbor....284, 306; ill. 284, 286; color plates I, page 291; XVIII, page 316
Highways, Scenic....285, 300, 301, 304
Panoramic views....ill. 286; color plates I, page 291; VI, page 296; XVIII, page 316; XXII, page 320; XXIII, page 321
Population....303, 306
Renovation and rebuilding....285, 288–289, 290, 304–305
Residential suburbs....284, 290, 299; ill. 287; color plates V, page 295; VIII, page 298; XVIII, page 316
Ships and shipping....306; ill. 284
Streetcars....306; ill. 285
Trees and flowers....299, 301; color plates III, page 293; XX, page 318; XXIV, page 322
Yellow fever sanitation and research....295, 305–306; ill. 305
Rio Grande (river)
Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By Frederick Simpich. 28 ills. in black and white, 24 ills. in color, 6 maps, Oct....415–462
Riatas and Romance on the Rio Grande. 24 ills. in color from natural color photographs; 23 ills. by Luis Marden. Oct....431–462
Rio Grande (Fergusson)....424
Rio Grande City, Texas....454
Rio Grande Reservoir, Colorado....415
Rio Grande Survey, National Geographic Society: Members of....ill. 429
Rio Grande Valley....417, 450
Rio Panorama: Breath-taking Is This Fantastic City amid Peaks, Palms, and Sea, and in Carnival Time It Moves to the Rhythm of Music. By W. Robert Moore. 12 ills. in black and white, 34 ills. in color, Sept....283–324
Río Piedras, Puerto Rico....708, 712
Rivadavia, Bernardino....592
Rivadavia (street), Buenos Aires....585
"Roaring forties" (winds)....51, 142
Robert, Duke of Normandy, Effigy of: Gloucester Cathedral....744
Roberts, J. Baylor: Corn and Color in the Hawkeye State (Iowa). 20 ills. in color from natural color photographs; 19 ills. by J. Baylor Roberts. Aug. 151–174
Rock, (Dr.) Joseph F....706
Rock, Mineralized: Antarctica....138
Rock cod: Galápagos Islands....35
Rock divans in cone dwelling: Turkey....702; ill. 779
Rock formations: Punakaiki, New Zealand....ill. 61
Rock Island, Illinois....166
Rocket train....144
Rockets, Experimental....7; ill. 6
"Rocky Mountain bee plant." See *Cleome, Pink.*
Rocky Mountains
Lords of the Rockies: Photographing Big Game Animals in Their Primeval Surroundings, from Arizona to Canada, Brings Adventure to Two Wilderness Wanderers. By Wendell and Lucie Chapman. 14 ills. in black and white, 28 ills. in color, July....87–128

Page

Rocky Mountains (Cont.)
Stalking Big Game with Color Camera. 28 ills. in color from natural color photographs by Wendell Chapman. July ... 89–128
Rodin, Auguste ... 598
Rodrigo de Freitas Lagoon, Rio de Janeiro ... 299; ill. 289
Rodríguez, Gerardo Matos (composer) ... 585
Rodriguez (island), Indian Ocean ... 79–80; ill. 69
Roe deer ... 500–501; color plate XI, page 499
"Roe rings" ... 470, 499, 500
Rohm and Haas (laboratory), Philadelphia ... 610
Roma, Texas ... 454
Roosevelt, (Mrs.) Franklin D. ... 141
Rosas, Juan Manuel de ... 593
Picture of ... color plate VIII, page 584
Rose Window, Westminster Abbey ... 744; gravure plate XVI, page 760
Rosin, Natural ... 605, 608, 620, 624
Ross, (Gov.) J. S. See *Clunies-Ross, (Gov.) J. S.*
Ross, (Gen.) Robert ... 379
Ross Sea, Antarctica ... 129
Ross Shelf Ice: Antarctica ... 134
Rosy mimulus (flower) ... 100
Rouen, France ... 559
Rowan berries, Roe deer are fond of ... 500–501
Royal palms: Rio de Janeiro ... 299; color plate III, page 293
Rua do Ouvidor (shopping street), Rio de Janeiro ... 285, 303
Ruanda, Belgian Congo ... 512, 544
Ruanda-Urundi, Mandate of ... 522
Rubber
Artificial ... 601, 603, 631, 632
Natural ... 605
Rubber latex ... 617
Rudbeckia hirta. See *Black-eyed Susan.*
Rudbeckia laciniata (coneflower) ... 260
Rudbeckia nitida (plant) ... 260
Rudbeckia triloba (coneflower) ... 260
Ruellia, Hairy ... 240; color plate IX, page 241
Ruellia ciliosa. See *Ruellia, Hairy.*
Rugs
Cotton: Puerto Rico ... color plate XII, page 732
Persian ... 334, 342; color plates V, page 343; VII, page 345
Rag: Swedish farmhouse ... ill. 409
Turkish ... 792, 801; ill. 787
Rukh (Persian shah) ... 346, 353
Rum distilleries: Puerto Rico ... 721, 727
Rumoka (volcano), Belgian Congo ... 525
Rune stones, Viking: Sweden ... 407
Ruppert, Karl ... ill. 211
Rusa (deer) ... 509; color plate XVI, page 510
Rusa (Malayan word for deer) ... 509
Russ M. Hamilton Ranch, Texas: Sheep shearing ... 445
Russell, (Dr.) Carl P. ... 500
Russian blouse, Man wearing: Petseri, Estonia ... ill. 832
Russian thistle ... 262
Russians: Iran ... 338
Rustum (legendary hero) ... 328
Ruthenia, Hungary ... 560
Ruthenium (element) ... 560
Rutshuru, Belgian Congo ... 511–512, 513
Tribesmen ... ill. 513
Rydaholm, Sweden ... 308
Rye, Swedish farmer sowing ... 414; ill. 411
Rymmen, Lake, Sweden ... 304, 411, 412; ill. 410
Rynanna Wireless Station, Foynes, Eire ... 139

S

Sá, Estacio de ... 288, 289
Sá, Mem de ... 288, 289
Saare Island, Estonia ... 805
Sabati (Italian botanist) ... 234
Sabatia angularis (rose gentian) ... 234
Sabatia campestris. See *Gentian, Rose.*
Sable, American. See *Pine marten.*
Sac County, Iowa ... 160, 161, 179
Sac Indians: Iowa ... 178
Saddle used on reindeer oxen ... 665
Saddler: Laredo, Texas ... color plate XI, page 457
Saddles: Laredo, Texas ... color plate XI, page 457
Safavid Dynasty ... 325
Sage, Prairie ... 242; color plate X, page 243
Sagittarius (constellation) ... 26
Sailboats
Chesapeake Bay ... 375, 380; air view 380; ill. 356, 368, 369, 377, 381
Iowa ... color plate X, page 168
Rio de Janeiro ... color plate IV, page 294
St. Ambrose College, Davenport, Iowa ... 161
St. Augustine of Canterbury ... 559, 741
St. Basil ... 779
St. Brendan ... 140
St. Brendan's Island (legendary island) ... 140–141
St. Croix (island), Virgin Islands ... 740

Page

St. Helena (island), Atlantic Ocean ... 81, 85; ill. 77, 78
Inhabitant of ... ill. 81
St. Hieron ... 773
St. Ignace Island: Interlocked moose antlers ... ill. 480
St. John (island), Virgin Islands ... 740
St. John, Church of: Narva, Estonia ... 825
St. John's College, Annapolis, Maryland ... 391
St. Johns River, Florida: Water hyacinths ... ill. 36
St. Louis, Missouri ... 427
St. Louis Exposition (1904): Brazilian exhibit ... 288, 293
St. Mary, Church of, Danzig ... 680; ill. 682, 690
St. Michaels, Maryland ... 376, 377
St. Nicholas, Church of: Tallinn, Estonia ... ill. 813, 823
St. Nicholas plant, Tea made from ... 430
St. Olaf, Church of: Tallinn, Estonia ... ill. 814
St. Paul ... 764, 765
St. Paul's Cathedral ... ill. 743; gravure plate IX, page 753
St. Peter ... 763
St. Simeon Stylites ... 791
St. Thomas (island), Virgin Islands ... 740
Sake, Belgian Congo ... 523, 525
Market place ... ill. 545
"Salida" (exit): Buenos Aires subway ... ill. 587
Salisbury Cathedral ... 744, 761; gravure plate VIII, page 752
Salmon, Image of: Danzig ... ill. 689
"Saloon and Hall of Justice West of the Pecos" ... 439; ill. 446
Salt ... 605
Necessary to deer ... 464
Woman buying: Belgian Congo ... ill. 545
Salt pans: Boquerón, Puerto Rico ... 728; ill. 711
Salter, (Mrs.) Fannie M. ... ill. 386
Salvia pitcheri. See *Sage, Prairie.*
Sambar (deer) ... 497; color plate X, page 498
Samman, Iran ... 338
Samoa Islands, Pacific Ocean ... 43–44
Samoans (people) ... 44; ill. 52
Samuel (Biblical character) ... 764
San Andrés Tuxtla, Mexico ... 183
San Augustín River, Mexico ... 194
San Cristóbal (fortress), San Juan, Puerto Rico ... 705; color plates IV, page 716; X, page 730
San Francisco, California ... 427
San Francisco (cruiser) ... ill. 700
San German, Puerto Rico ... 728
San Isidro (section), Buenos Aires ... 590
Race track ... 563, 576, 592
San José Church, San Juan ... 705
San Juan (river), Mexico ... 197
San Juan, Puerto Rico ... 740
Puerto Rico: Watchdog of the Caribbean: Venerable Domain Under American Flag Has New Role as West Indian Stronghold and Sentinel of the Panama Canal. By E. John Long. 24 ills. in black and white, 23 ills. in color, Dec. ... 697–738
Building boom ... 709–710
Forts and fortresses ... 697, 705; air view 609; color plates II, page 714; IV, page 716; X, page 730; XIII, page 733
Harbor and shipping ... 697, 705; ill. 699, 700, 701, 704; color plates II, page 714; XIV, page 734
Public and semi-public buildings ... 705; color plates I, page 713; III, page 715; IX, page 729; X, page 730
Suburbs ... 698, 709–710; ill. 699
Puerto Rico Polychromes. 23 ills. in color from natural color photographs by Edwin L. Wisherd. Dec. ... 713–736
San Juan Mountains, Colorado ... 415
San Luis Valley, Colorado ... 415, 416, 417, 418, 419
Sand dunes ... ill. 425
San Martín, José de ... 562, 563, 583
Monument to ... 590; color plate X, page 594
Picture of ... color plate VIII, page 584
San Salvador Island, Galápagos Islands: Tree cactus ill. 40
Sand dunes: San Luis Valley, Colorado ... ill. 425
Sand flies
Marquesas Islands ... 39
New Zealand ... 55
Sangre de Cristo Range, Colorado-New Mexico ... 417
Sanguinaria canadensis. See *Bloodroot.*
Santa Cruz (Indefatigable) Island, Galápagos Islands 35, 36
Santa Fé (Barrington Island), Galápagos Islands ... 36
Santa Fé, New Mexico ... 451
Santa Helena (canyon), Rio Grande, Texas ... 430; air view 417; color plate X, page 456
Santa María (island), Galápagos Islands ... 36, 42
Santa Thereza (hill), Rio de Janeiro ... 285
Santi Quaranta (Porto Edda), Albania ... 560
Santiago Island, Puerto Rico ... 706, 737–738
Santo Antonio (hill), Rio de Janeiro ... 285, 304
Santo Domingo (Ciudad Trujillo), Dominican Republic ... 705

Page

Santos, Brazil ... 561
Santos-Dumont Airport, Rio de Janeiro ... 289; ill. 302; color plate XXII, page 320
Santurce, Puerto Rico ... 698, 709, 710, 721; ill. 699
São Paulo, Brazil ... 289, 300, 306, 586
Sapo Hill, Rome ... 627
Saponaria officinalis. See *Bouncing Bet.*
Sapphire bearings cut by Puerto Rican girls ... 737
Saprophytes (plants) ... 268
Sardis, Turkey ... 767
Sargasso Sea ... 139, 141–142
Sargasso seaweed ... 33
Sarmiento, Domingo Faustino ... 561
Saturday Evening Post (periodical) ... 576
Saturn (planet) ... 14, 16
  Painting of ... color plate II, page 18
Saul of Tarsus (St. Paul) ... 764
Savaii (island), Western Samoa ... 44
Saxon Chronicle ... 742
Scandium (element) ... 560
Scarlet bugler ... 238
Scarlet paintbrushes (wild flowers) ... 88
Scent glands in feet of deer ... 470, 493
Scents imported for soap making ... 628
Schichau Yards, Danzig ... ill. 687
Schist (rock): Antarctica ... 133, 138
Schmidt, (Dr.) Erich F. ... 330
Schomburgk's deer ... 497; color plate IX, page 495
School of Tropical Medicine, San Juan, Puerto Rico 705; color plate X, page 730
Schools
  Elkader, Iowa ... ill. 180
  Iran ... 326, 348
  Lapp ... 641, 674, 675; ill. 670, 673, 675, 676
  Puerto Rico ... 710, 712
  Sweden ... 411
Schooners
  Bay schooner, Chesapeake ... air view 380
  J. W. Glise ... ill. 86
  Three-masted schooner: San Juan harbor ... ill. 704
Schrankia uncinata. See *Sensitive brier.*
Schwabenland (catapult ship) ... 132
Science
  Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By Frederick Simpich. 22 ills. in black and white, 26 ills. in color, Nov. ... 601–640
  From Nature's Hidden Building Blocks (synthetic products). 26 ills. in color from natural color photographs by Willard R. Culver. Nov. ... 609–640
Scopus, Mount, Palestine ... 763
Scott, Dred ... 166
Scott, (Capt.) Robert Falcon: Monument to ... ill. 74
Scott, Winfield ... 427
Scours (cattle disease) ... 477
Scraper for cleaning reindeer hide ... ill. 648
Scrophulariaceae. See *Snapdragon family.*
Scutellaria galericulata. See *Skullcap.*
Scythe, Swedish farm boy sharpening ... ill. 400
Scythe with disk for arranging stalks ... ill. 404
Sea-isle cotton: Puerto Rico ... 721
Sea lions: Galápagos Islands ... 36
Sea birds ... 33, 63, 66, 75; ill. 46, 83, 84
Sea turtles
  Ascension Island ... 82, 85
  Cocos Islands ... 79
Seals
  Danzig ... ill. 695
  Puerto Rico ... ill. 698
Seaplane: *Yankee Clipper* ... ill. 141
Seaweed, Dress goods made from: Japan ... 632
Sedge, Lapps stuff boots with ... 666
Sedimentary rock formations: Antarctica ... 133, 138
Seeding rye, Swedish farmer ... 414; ill. 411
Seismograph: Swedish Scientific Station, Abisko ... 668
Seminary, Teachers': Murjek, Sweden ... 674
Senecio aureus. See *Ragwort, Golden.*
Senna (drug) ... 249
Sensitive brier ... 244; color plate XI, page 245
Sensitive plants ... 244
Sepah Square, Tehran, Iran ... ill. 333
Sequoia logs, Petrified: Antarctica ... 130
Sequoia National Park, California: Deer ... ill. 509
Serape, Hitchhiker wearing: Laredo ... color plate I, page 431
Sergo, U. S. S. R. ... 560
Setu women: Estonia ... ill. 831
Severn River, Maryland ... 391; air view 384
Seymour Islands, Galápagos Islands ... 35
Shackleton, (Sir) Ernest H. ... 130
Shahrud, Iran ... 338
Shambene, Belgian Congo ... 526
Shambene (volcano), Virunga range ... 526, 543; ill. 517
Shanghai jar (earthen tub) ... 71
Shannon (river), Eire ... 139
Shapley, (Dr.) Harlow ... 32

Page

Shapur II (king of Persia) ... 354
Shapur III (king of Persia) ... 354
Sharks
  Galápagos Islands ... 36
  South Pacific Ocean ... 47
Shaw, Bernard ... 573
Shawls, Silk, worn by Lapp women ... color plate III, page 650
Shawnee Indians ... 485
Sheaffer, W. A. ... 165
Shearing sheep
  Högakull farm, Sweden ... 407; ill. 412
  Texas ... ill. 445
Sheep and sheep raising
  Australia ... 276
  Sweden: Clipping sheep ... 407; ill. 412
  Texas ... ill. 445
  Turkey ... ill. 786
Shellac ... 619, 620
Sheller, Corn: Iowa ... color plate VIII, page 158
Shenandoah, Iowa: Flowers on light posts ... color plate XII, page 170
Shepherd gang (squatters) ... 160
Shia faith ... 330, 354
Shia Moslems ... 339, 340; color plate VII, page 345
"Shield volcanoes" ... 526; ill. 516
Shiloh (Seilun, Palestine) ... 764
Ship models: Diele (house), Danzig ... ill. 692
Ship hull memorial to Bill Evans ... 372; ill. 374
Ships and shipping
  Buenos Aires ... 574–576; ill. 566, 572, 574, 588, 589; color plate V, page 581
  Danzig ... 696; ill. 552, 553, 555, 687, 688
  Gdynia, Poland ... ill. 557
  Joseph Conrad ... ill. 62
  Puerto Rico ... 705, 738; air view 700; ill. 701, 704
  Rio de Janeiro ... 306; ill. 284
  Tallinn, Estonia ... ill. 819
  See also *Voyages.*
Shiras, George, 3d ... 87, 102
  Photograph of ... ill. 480
  Photograph of doe and twin fawns by ... ill. 475
Shiraz, Iran ... 336
Shoe soles, Spun glass used in ... color plate XII, page 636
Shoebands, Lapp ... 654
Shooting star (flower) ... 234; color plate VI, page 235
"Shooting stars" (meteors) ... 8
Shorthorn (breed of cattle) ... 589
Shoulder yoke, Woman wearing: Danzig ... ill. 683
Shrines
  Iran ... 347, 348, 349, 353; color plates I, page 339; II, page 340; III, page 341; VII, page 345; VIII, page 346
  Marquesas Islands ... 39
Shush, Iran ... 767
Shy albatross: New Zealand ... 56
Sickles used in cutting grain: Sweden ... ill. 397
Sidewalks, Patterned: Rio de Janeiro ... 288; ill. 301, 303, 324; color plates III, page 293; XXI, page 319
Sidon (Saïda, Levant States) ... 764
Siempreviva (plant) ... ill. 452
Sigismund III ... 805
Signal station: Cape of Good Hope ... 80
Signs: Estonian village ... ill. 806
Sika deer
  Japanese ... 501; color plate XII, page 502
  Mandarin ... 501
Silene virginica. See *Pink, Fire.*
Silk ... 601, 607–608
  Imitation ... 601
Silo, Tile: Iowa farm ... color plate IV, page 154
Silos of soil experiment station: Puerto Rico ... ill. 725
Silver bars: Laredo, Texas ... color plate XI, page 457
Silver breast shields worn by Estonian women ... ill. 820
Silver dissolved by nitric acid ... color plate XII, page 636
Silver nitrate used in photography ... 636
Simpich, Frederick
  Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By Frederick Simpich. 22 ills. in black and white, 26 ills. in color, Nov. ... 601–640
  Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By Frederick Simpich. 28 ills. in black and white, 24 ills. in color, 6 maps, Oct. ... 415–462
"Simple horn" (brown brocket) ... 492
Simpson College, Iowa ... 161
Sinaloa (state), Mexico ... 453
Singapore, Straits Settlements ... 66, 67, 68, 71
"Singing clubs": Estonia ... 834
Sinope (Sinop), Turkey ... 767
Sioux City, Iowa ... 152, 178, 181; ill. 163
Sirius (star) ... 27
Sisyrinchium angustifolium. See *Blue-eyed grass.*

Page

Sitting Bull (Indian chief) ... 110, 117
65th Infantry, U. S. Army ... 737, 740; ill. 726
Sjulsson, Elisabet: Photograph of ... ill. 675
Skåne, Sweden ... 393, 674
Skansen (outdoor museum), Stockholm ... 405
Skipjack (boat): Chesapeake Bay ... 375; air view 380
Skullcap (flower) ... 242; color plate X, page 243
  Hyssop ... 242
Skyscrapers: Buenos Aires ... 564, 571
Sledge, Laplander's ... color plate II, page 482
Sleighs
  Lapp: Sweden ... ill. 643
  Tallinn, Estonia ... ill. 824
Sloth, Mummified: New Mexico ... 419
Slovakia ... 140, 560
Slughi dogs: Turkey ... 766
"Smak" (eskimo pie), Vender of: Buenos Aires ... color plate VII, page 583
Småland (province), Sweden
  Life's Flavor on a Swedish Farm: From the Rocky Hills of Småland Thousands of Sturdy Citizens Have Emigrated to the United States. By Willis Lindquist. 23 ills., 1 quarter-page map, Sept. ... 393–414
  Churches ... 398, 407
  Costumes ... ill. 399
  Emigrants to United States ... 393, 395, 396
  Family life ... 399
  Farmhouses ... 393, 394, 396, 408–409; ill. 398, 400
  Food ... 393, 394, 410, 411, 413
  Hospitality ... 393, 396, 399, 402, 414
  Museums, Open-air ... 405, 407
  Rocky fields ... 396; ill. 402
"Smartweed" ... 232
Smith, (Capt.) John ... 357, 359, 366, 387
Smith Island, Chesapeake Bay ... 360, 371–372; ill. 374
Smithsonian Institution, Washington, D. C. ... 25
  Expedition: Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. ... 183–218
Smooth aster ... 260; color plate XIX, page 261
Smörball (flower) ... 669
Smuggling: Rio Grande border ... 427, 455
Snails, Petrified: Texas ... 439
Snapdragon family ... 238
Snow drifts: Yellowstone National Park ... ill. 484
Snow Hill Island, Antarctica ... 129, 131, 133
Snow-on-the-mountain (plant) ... 229; color plate III, page 228
Snowplant ... 268
Snyder, Howard ... 159
Soap making ... 627–628, 631; ill. 630, 631
"Soapwort" ... 232
Society Islands, Pacific Ocean ... 43
Society of Friends: William Penn College maintained by ... 161
Society's New Map of Central Europe and the Mediterranean. Text accompanying special map supplement in colors. Oct. ... 559–560
Sod hut, Laplander's ... color plate V, page 661
Sodium vapor light ... 629
Soğanlı Gorge, Turkey ... color plate III, page 771
Soğanlıdere, Turkey ... 781, 792; ill. 802
Sohrab and Rustum (Arnold) ... 328
Soil Conservation Service: Puerto Rico: Experiment station ... ill. 725
Solanaceae. See *Potato family*.
Solanum dulcamara. See *Bittersweet*
Solanum elaeagnifolium. See *Nightshade, Silver*.
Solar corona, Streamers of ... color plate VI, page 22
Solar energy, Attempts at utilizing ... 25
Solar heaters: Water heated by ... 25
Solar prominences ... ill. 15
Solar radiation ... 25
Solar System's Eternal Show. 10 ills. in color from paintings by Charles Bittinger. July ... 17–24
Solarium apartment: Gdynia, Poland ... ill. 558
Soldiers: Danzig ... ill. 679, 685, 692
Soldiers and Sailors Monument, Des Moines ... air view 149
Solidago rigida. See *Goldenrod, Stiff*.
Solidago speciosa. See *Goldenrod, Showy*.
Solís, Juan Díaz de ... 561
Solomons Island, Patuxent River ... 391
Solomon's-seal (plant) ... 266
Solvents manufactured by sugar refinery: Puerto Rico 737
Sombrero, Straw: Texas ... color plate V, page 435
Song festivals: Estonia ... 820, 834; ill. 829
Song of Toil (monument) ... 573
Sonic depth sounding: Atlantic Ocean ... 140
Sorgo: Iowa ... color plate XVI, page 174
Sorrels (plants) ... 232
Sosa, Gaspar de ... 439, 440
Soundproofing, Glass wool used for ... 629
Sounds (fjords), New Zealand ... 51, 53, 55–57

Page

South Amana, Iowa ... 160
South America ... 130, 131, 139, 142
  See also *Buenos Aires* and *Rio de Janeiro*.
South American marsh deer ... 493; color plate VIII, page 494
South Island, New Zealand ... 51, 58
South Pacific Ocean ... 129
South Pole ... 74, 130, 137
Southeast Drift Current, Atlantic Ocean ... 141
Southeasters (storms): Table Bay, Capetown ... 81
Southern Alps, New Zealand ... 51
Southern Cross ... 300, 561
Southern Pacific Railway ... 433, 440
  Freight train crossing bridge ... ill. 442
Sowing rye, Swedish farmer ... 414; ill. 411
Soybeans: Iowa ... 150
Space, Theories about ... 32
"Space ships" ... 25
Spanish American War ... 698, 713, 729, 733
Spanish Civil War ... 709
Spanish Club, San Juan ... 705; color plates I, page 713; X, page 730
Spanish memorial, Palermo Park, Buenos Aires. color plate XIII, page 597
Sparrows Point, Maryland ... 386; ill. 382
Specimen Ridge, Yellowstone National Park ... 116
Spectra, Solar: Paintings of ... 16; color plate VII, page 23
Spectra, Star ... 4–5
Speicher Insel (island), Danzig harbor ... 696
Spencer, John C. ... 391
Spencer, Philip ... 391
Spencer, Iowa: Scene at Fair ... color plate V, page 155
Sphaerella nivalis (alga) ... 665
Spices: Puerto Rico ... 722
"Spider" (device for hauling molasses): Barbados ... ill. 84
Spiderwort ... 264; color plate XXI, page 265
Spiderwort family ... 264
Spillville, Iowa ... 176
Spinach: Texas ... 450
Spinden, (Dr.) Herbert J.: Maya calendar correlation 183, 213
Spinnerets used in rayon manufacture ... 623; ill. 603
Spinning wheel: Sweden ... ill. 409
Spirit Lake, Iowa ... 180
Spirit Lake Massacre (1857) ... 143, 168
"Splash" (platypus) ... 274–275, 277, 281, 282; ill. 278, 279, 280
Sponge, Synthetic ... 630–631
Sports and games
  Ascension Island: Golf ... 85
  Buenos Aires ... 563–564, 591
  Estonia: Finger-wrestling ... ill. 806
  Puerto Rico ... 707; color plate XIII, page 733
Spring beauty (flower) ... 232; color plate V, page 233
Spruce used to make sponges ... 630
Spurge family ... 229
Spurgeons, Perl ... ill. 161
Squawweeds ... 256
Squids: Atlantic Ocean ... 81, 85
Squirrels, Pine: Rocky Mountains ... 88, 97, 99; ill. 99
Stachys bullata (woodmint) ... 242
Stachys palustris. See *Hedge nettle*.
Stadium: Flamengo Yacht Club, Rio de Janeiro. color plate IV, page 294
Stages, Four-mule: El Paso, Texas ... 427
Stained glass removed from cathedrals: England ... 741, 761
Staircase, Spiral: Diele (house), Danzig ... ill. 692
Stalino, U. S. S. R. ... 560
Stalking Big Game with Color Camera. 28 ills. in color from natural color photographs by Wendell Chapman. July ... 89–128
Standard (newspaper): Buenos Aires ... 585
Star sailboats: Gibson Island ... 389; ill. 368
Starch grains used in color filters ... 631
"Starflowers" ... 260
Stars ... 3, 4–5, 25–28; ill. 7, 26, 27; color plate VIII, page 24
  Double ... 28
  Elements in spectra ... 4–5
  Explosion of ... 28
  Timing movements of ... ill. 30
  Variable ... 28
"Steamboat Bill" ... 164
Steamboat Rock, Wild Cat Den State Park ... 166
Steel plant, Sparrows Point, Maryland ... ill. 382
Steering wheels, Plastic ... 632; color plate XVI, page 640
Stegomyia aegypti (mosquito) ... 306
Steinfliess, Danzig: Polish boundary ... ill. 556
Stelronema lanceolatum. See *Loosestrife*.
Stela A: Vera Cruz expedition ... 209–210; ill. 200
Stela C: Vera Cruz expedition ... 203, 213–214; ill. 212, 217
Stela D: Vera Cruz expedition ... ill. 197, 198
Stereographic projection: Used for map of Atlantic Ocean ... 139
Stewart, Richard H. ... 217, 218; ill. 209
Stewart Island, New Zealand ... 56
Stickseed ... 236; color plate VII, page 237
Sticktights ... 262
Stine, (Dr.) C. M. A. ... 601, 631

Page

Stinkwood (tree): Christmas Island ... 63
Stirling, Matthew W.
Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. ... 183–218
Photographs of ... ill. 185, 190, 211–217
Stirling, (Mrs.) Matthew W. ... 199, 201, 203, 205, 216
Photographs of ... ill. 190, 196
Stirrup, Gaucho's: Argentina color plate XI, page 595
Stockholm, Sweden ... 676
Stockings made of "Nylon" ... 603; color plate XIII, page 637
Stocks, Wooden: Rydaholm church, Sweden ... 398
Stockyards: Sioux City, Iowa ... 181; ill. 163
Stone disks used to close cells: Turkey ... ill. 782
Stool used by Linnaeus ... ill. 668
Stora Lule River, Sweden ... 670
Stora Sjöfallet, Sweden ... 670
Stores
Castolon, Texas ... color plate V, page 435
Danzig: Tobacconist's shop ... ill. 551
Tres Zapotes, Mexico ... ill. 189
Storglaciären (glacier), Sweden ... ill. 651
Storks, White-bellied: Africa ... duotone plate IV, page 530
"Storksbill" (wild geranium) ... 231
Storm Lake, Iowa ... 180
Storm Lake (town), Iowa ... 160
"Stout Margaret" (bastion), Tallinn, Estonia 811; ill. 808
Stoves
Sweden: Kitchen stove ... ill. 403
Vera Cruz expedition ... 199; ill. 210
Strabo (Greek geographer) ... 766
Straits Settlements ... 70
"Street of Nine Eyes," Danzig ... 678
Street scrubbing: Pella, Iowa ... color plate XV, page 173
Streetcars
Rio de Janeiro ... 306; ill. 285
Tallinn, Estonia ... ill. 833
Strong, (Dr.) Lee ... 628
Strout, Edith Bauer
At Home on the Oceans: Whales and Sharks Make Exciting Neighbors for a Professor's Wife, Turned Able Seaman, On a Three-year Voyage Around the World. By Edith Bauer Strout. 54 ills., 1 map, July ... 33–86
Photographs of ... ill. 35, 40, 42, 43, 44, 47, 49, 64, 65, 66, 70
Strout, R. S. ... 33, 35, 43, 47, 50, 57, 65, 79, 81
Photographs of ... ill. 34, 45, 81
Stugor (cottages): Sweden ... 675
Stylites (Pillar Hermits) ... 791
Submarine base: Rio de Janeiro ... color plate XXII, page 320
Submarines
Air-conditioning ... 628
Argonaut First ... 363
Subway: Buenos Aires ... 576; ill. 587
Suckow, Ruth ... 159
Suez Canal ... 574
Suffrage, Women's: Iowa ... 177
Sugar
Germany: Made from pine trees ... 632
Loaf, Lapps use ... 652
Mauritius Island ... 73, 80
Sugar cane
Mexico ... 197; ill. 208
Puerto Rico ... color plate VI, page 718
Zululand, Union of South Africa ... 80
Sugar factories
Iran ... 335
Puerto Rico ... 737; air view 727
Sugar industry: Puerto Rico ... 707, 709, 721, 727, 728, 738
Sugar Loaf (peak), Rio de Janeiro ... 283, 284, 290, 301; ill. 286; color plates I, page 291; XVIII, page 316
Sul Ross Museum, Alpine, Texas ... 428, 430, 455
Sul Ross State Teachers' College, Alpine, Texas ... 455
Sulivan Bay, Galápagos Islands ... 35
Sullivan Line (Missouri-Iowa boundary line) ... 164
Sulphur ... 605
Sulphur chimneys: Nyamlagira (volcano) ... ill. 520
Sulphur vent: Nyamlagira (volcano) ... ill. 547
Sulphuric acid ... 624, 626, 632
Sulphuric acid coolers: Philadelphia ... ill. 626
Sumatra (island), Netherlands Indies ... 71
Sun ... 1, 2, 4, 5, 6, 7, 10, 11, 14, 15, 25, 26, 27
Atomic energy ... 25
Break-up of ... 5; color plate V, page 21
Eclipsed by the Earth (painting) ... color plate VI, page 22
Prominences of ... ill. 15
Sun glasses made of synthetic materials ... color plate IV, page 612
Sunbonnet, Woman wearing: Texas ... color plate IX, page 455

Page

Sunflower
Bush ... 262
Stiff ... 262; color plate XX, page 263
Sungue River, Mozambique ... duotone plate XV, page 541
Sunspots ... 1, 6, 25; ill. 10
"Super-Nova" (exploding star) ... 28
Supercentrifugal machine: Du Pont laboratory ... 603
Superior, Arizona: Magma Copper Mine ... 628
Supreme Court Building, Rio de Janeiro ... 319
Surcoat, Black Prince's: Canterbury Cathedral ... 741
Surgery, "Lucite" rods used in ... 619
Susa (Shush, Iran) ... 767
Susquehanna (river), Maryland-Pennsylvania ... 379, 386
Svea (Swedish farm girl) ... ill. 413
Swamp deer. See *Barasingha* and *South American marsh deer.*
Swanee River (song) ... 415
Swans
Black-necked: Buenos Aires Zoo ... color plate XII, page 596
Mute: Buenos Aires Zoo ... color plate XII, page 596
Swastika (flag) ... 575
Sweden ... 678
Life's Flavor on a Swedish Farm: From the Rocky Hills of Småland Thousands of Sturdy Citizens Have Emigrated to the United States. By Willis Lindquist. 23 ills., 1 quarter-page map, Sept. ... 393–414
Nomads of Arctic Lapland: Mysterious Little People of a Land of the Midnight Sun Live Off the Country Above the Arctic Circle. By Clyde Fisher. 28 ills. in black and white, 12 ills. in color, 1 page map, Nov. ... 641–676
Swedish Forestry Commission ... 394
Swedish Scientific Station, Abisko, Sweden ... 668
Sweeney, (Dr.) O. R. ... 150, 175
Sweet gum (tree) ... 251
Sweet pea
Crimson ... 249
Ornate ... 249; color plate XIII, page 248
Sweet-potato vines ... 238
Sweet william, Wild ... 240
Sweet williams ... 240
Swimming: Rio de Janeiro ... 290, 299
Swimming pool: Mar del Plata, Argentina ... ill. 568
Sword scabbard, Black Prince's: Canterbury Cathedral 741
Sydney, Australia: Lincoln Ellsworth in ... ill. 133
Sydney (ship) ... 70, 75
Syndesmon thalictroides. See *Anemone, Rue.*
Sze-poo-seang (Chinese name for milu) ... 504

T

Table Mountain, Capetown, Union of South Africa 80, 81
Tagel, Sweden ... 409
Tagus Cove, Galápagos Islands ... 36; ill. 41
Tagus River, Spain-Portugal ... 575
Tahiti (island), Society Islands ... 43
Tahuata Island, Marquesas Islands ... 38
Tai Oa Bay, Marquesas Islands ... 39
Taipi-Vai, Marquesas Islands ... 39
Taipis (people): Marquesas Islands ... 39
Taiwan (Formosa) ... 608
Tak-i-Bostan, Iran: Rock carvings ... 354; ill. 354
Talas, Turkey ... 768, 779, 801
Talc used to carry insect poison ... 626
Talinum, Tiny ... 232; color plate V, page 233
Talinum parviflorum. See *Talinum, Tiny.*
Tallinn, Estonia ... 803, 805, 809–811, 816, 817, 819; ill. 804, 819, 823, 824, 829
Churches and cathedrals ... 811, 816; ill. 811, 813, 814
Old streets and houses ... 810–811; ill. 810, 817, 826
Towers and fortifications ... 811; ill. 808, 809, 810, 813, 814, 818
Tama, Iowa ... 178
Tama County, Iowa ... 145
Tamalpais, Mount, California: Road to ... ill. 464
Tamaulipas (state), Mexico: Oxen and cart ... color plate XII, page 458
Tanganyika ... 528, 529, 530, 540, 542
Tanganyika, Lake, Africa ... 512, 515
Tangier Island, Virginia ... 365, 371, 372; ill. 378
Tangier Sound ... 372
Tango (dance): Buenos Aires ... 585–586, 588; ill. 565
Tannenberg, Battle of (1410) ... 684
Tannhäuser (Wagner) ... 696
Tanning reindeer skins: Lapland ... 656; color plate V, page 661
Taos, New Mexico ... 418
Tarpon fishing: Mouth of the Rio Grande ... 454
Tartu, Estonia ... 803, 807, 819–820; ill. 823
Tartu, University of: Estonia ... 819–820; ill. 823
Tasman Sea ... 51, 57
Tasmania: Platypus found in ... 272
Tattoo artist: Norfolk, Virginia ... ill. 365
Taupu (Marquesan woman) ... 39; ill. 53
Taurus Mountains, Turkey ... 763, 765, 792, 801, 802

Page

Taylor, Zachary ... 427, 454
Tczew, Poland ... 554, 606
Tea plantations: Iran ... 325
Teak (tree) ... 240, 241
  Grown in Puerto Rico ... 712
Teataja (Estonian newspaper) ... 816
Technical University, Tallinn, Estonia ... 820
Tectona grandis (tree) ... 240
Teeth pictured on advertising sign ... ill. 328
Tehran, Iran ... 326, 327, 329; ill. 333; color plate IV, page 342
Telegraph messages garbled by magnetic storms ... 6; ill. 11
Telescopes
  Homemade ... 1; ill. 4
  Mirrors ... 2, 5; ill. 3
  Mount Palomar, California ... 2, 3
  Mount Wilson, California ... 2, 15
  U. S. Naval Observatory ... ill. 30
Teletype machine: Message garbled by magnetic storm ill. 11
Tempel's comet ... 14
Tenant farmers: Sweden ... 409, 411
"Tenite" (plastic) ... 617
Tents
  Black cloth: Iran ... 336
  Flooded tent: Canadian Rockies ... ill. 100
  Lapp *kåta* ... 641, 642; ill. 644, 667
  Turkoman felt tents ... 338
Tephrosia virginiana. See *Goatsrue.*
Terbium (element) ... 560
Terlingua, Texas: Quicksilver mining camp ... 430
Termites: Australia ... 63; ill. 64, 65
Terns (birds)
  North Keeling Island ... 75
  Sooty: Ascension Island ... 85; ill. 83
Terra Nova (ship) ... 74
Terrapin farm, Crisfield, Maryland ... 371; ill. 372
Terrell County, Texas ... 454
Teutonic Knights, Order of the ... 677, 680, 684, 696
Texans (movie) ... 447
Texas
  Down the Rio Grande: Tracing this Strange, Turbulent Stream on Its Long Course from Colorado to the Gulf of Mexico. By Frederick Simpich. 28 ills. in black and white, 24 ills. in color, 6 maps, Oct. ... 415–462
  Border patrol ... 453; ill. 422, 426, 429, 446, 448, 449; color plates IV, page 434; VII, page 437
  Fossils ... 439
  History ... 427, 428, 430, 439–440, 453–454, 455; ill. 446
  Ranching and farming ... 430, 439, 440, 447, 454; ill. 445; color plates VI, page 436, VII, page 437
  Wild life ... 430, 454; color plate VIII, page 438
  Riatas and Romance on the Rio Grande. 24 ills. in color from natural color photographs; 23 ills. by Luis Marden. Oct. ... 431–462
Texas (ship) ... 365
Texas Border Patrol, Members of ... ill. 429
Texas Rangers ... 453; ill. 429; color plate VII, page 437
Textiles
  Chemists Make a New World: Creating Hitherto Unknown Raw Materials, Science Now Disrupts Old Trade Routes and Revamps the World Map of Industry. By Frederick Simpich. 22 ills. in black and white, 26 ills. in color, Nov. ... 601–640
  From Nature's Hidden Building Blocks. 26 ills. in color from natural color photographs by Willard R. Culver. Nov. ... 609–640
Thatch-roofed barn: Sweden ... ill. 408
Thatched huts: Lake Kivu region, Africa ... ill. 521
Thatcher, James ... 358
Therezopolis, Brazil ... 304
Thermoplastic, Celluloid is ... 617
"Thinker" (statue), Copy of: Buenos Aires ... 598
Third of February Park, Buenos Aires ... color plate IX, page 593
Thistle
  Canada ... 262
  Scotch ... 262
  Wavy ... 262; color plate XX, page 263
  Western ... 262
  Yellow-spined ... 262
Thomas, Joshua ... 371
Thomas à Becket ... 741
Thomas (island), Great Barrier Reef ... 62
Thompson Island, Atlantic Ocean: Now considered non-existent ... 141
Thorn (Toruń), Poland ... 677
"Thread Lane," Danzig ... 678
Thread made of reindeer sinews ... 654
"Three-window" houses: Danzig ... 681; ill. 685
Three wise men (fresco): Analipsis Church: Turkey color plate VIII, page 776
Throne, Gulistan Palace, Tehran ... 327; ill. 331
Thule (Northland) ... 560

Page

Thulium (element) ... 560
Ticks (insects): Mexico ... 201
Tickseed ... 262; color plate XX, page 263
Tiesenhausen, (Count) Ferdinand von ... 811, 816
Tiger attacking sambar ... color plate X, page 408
"Tigre" (recreation spot): Argentina ... 563
Tigre, Argentina ... 562
Tigre Regatta, Buenos Aires ... 592
Tigre River, Argentina ... 591, 600
Tijuca Peak, Brazil ... 283; ill. 286
Tiki (stone gods): Marquesas Islands ... 39
Tilsit, Germany ... 559
Timaeus (Plato) ... 140
Times (London newspaper) ... 325
"Tin Can Island," Pacific Ocean ... 47
Tin mines: Manono, Belgian Congo ... 535
Tires
  Automobile ... 632
  Pneumatic, on mule cart: Laredo, Texas ... ill. 441
Titanic (ship) ... 142
Titanium (element) ... 29
Titus (Roman emperor) ... 763
Tlacotalpan, Mexico ... 192, 193
Tobacco plants, Airplane spraying ... ill. 626
Tobacco raising
  Mexico ... 197
  Puerto Rico ... 707, 709
Tobacconist's shop: Danzig ... ill. 551
Toby, Mount, Massachusetts ... 470
Togas worn by tribesmen: Belgian Congo ... 513
Toilet sets made of plastics ... ill. 618; color plate III, page 611
Tokaj, Hungary ... 559
Tokali Kilise (cone church): Turkey ... ill. 790
Tomatoes: Baltimore cannery ... ill. 388
Tomb towers: Iran ... 338, 347
Tombaugh, Clyde ... 16
Tombs
  Iran ... 332, 338, 339, 347, 349, 353; color plates I, page 339; VII, page 345; VIII, page 346
  Kayseri, Turkey ... 767
Tomilin, (Mr. and Mrs.) Michael ... 737
Toothbrushes with "Nylon" bristles ... 603; color plate XI, page 635
Topographical features: Antarctica ... 131, 137, 138
Topolobampo, Mexico ... 428
Topuz Dag (mountain): Turkey ... 768, 777
Torch, Gasoline, used to burn spines off prickly pear color plate XII, page 458
Torne River, Sweden ... 674
Torne Träsk, Lake, Sweden ... 646, 668, 669, 670; ill. 667
Toro Negro unit, Caribbean National Forest, Puerto Rico ... 712
Toros Dağları (Taurus Mountains) ... 763
Tortoises on deck of *Igdrasil* ... ill. 47
Törwand-Tellmann, (Mme.) Anna ... 834
Touch-me-not family ... 231
Touring Club of Brazil, Rio de Janeiro ... ill. 284
Tourist Station: Abisko, Sweden ... 668
Tourists: Puerto Rico ... 705, 711
Towers
  Bell: Sweden ... 398; ill. 406
  Church: Sweden ... 398
  Church of St. Mary, Danzig ... 680–681
  Crane Tower: Danzig ... 696; ill. 552, 555, 688
  English cathedrals ... 741, 742, 744; gravure plates I, page 745; III, page 747; V, page 749; XI, page 755
  "Jonah's pillars": Turkey ... 765
  Observation tower: Rio Grande ... ill. 449
  Round: Bustam, Iran ... color plate VIII, page 346
  Tallinn, Estonia ... 811; ill. 808, 809, 810
  Tomb towers: Iran ... 338, 347
Toy chemistry set, Boy experimenting with ... ill. 602
Toys made of plastics ... 620, 632; color plate VII, page 615
Tractors: Iowa ... 176, 177, 179
Trade winds ... 76, 79, 142
Tradescantia tricolor. See *Wandering Jew.*
Tradescantia virginiana. See *Spiderwort.*
Traffic policeman: Buenos Aires ... ill. 564
Trailer, Automobile, Lucie and Wendell Chapman's ... 88, 104, 113, 120; ill. 103, 115
Training ship, Finnish: Bowsprit of ... ill. 704
Trains
  Danzig ... 552
  Sweden: Electric train ... 393
Tralee (boat): Chesapeake Odyssey: An 18-foot Sailboat Follows the Course of Captain John Smith around This Spacious Bay of History, Commerce, Sea Food, and Nautical Lore. By John Maloney. 32 ills., 1 page map, Sept. ... 357–392
Trans-Iranian Railway ... 337
Trasimene, Lake, Italy ... 559
Traveler's palms: Rio de Janeiro ... 290
Trays, Wooden: Lapland ... 652
Treadmill, Wooden, used to toll bells: Danzig ... 681
"Treasure Island" (resort), Puerto Rico ... 737

Page

Tree cactus: Galápagos Islands ... ill. 40
Tree frog: Puerto Rico ... 728
Tree of Life in Norse mythology ... 33
Tree stumps, Products manufactured from ... 608; ill. 624
Tres Zapotes, Mexico: Discovering the New World's Oldest Dated Work of Man: A Maya Monument Inscribed 291 B. C. is Unearthed Near a Huge Stone Head by a Geographic-Smithsonian Expedition in Mexico. By Matthew W. Stirling. 40 ills., 1 half-page map, Aug. ... 183–218
  Agriculture ... 198, 207
  Allotment of land ... 198
  Expedition crew ... 198, 202, 205; ill. 186, 190, 196, 198, 200, 202, 214, 215
  Expedition headquarters ... 199, 218; ill. 190, 211, 215
  Insects ... 201
  Mounds ... 185, 206, 210, 213, 216; ill. 186, 202, 203, 214
  Natives ... 198, 199, 201–202, 203; ill. 187, 189, 191, 192, 193, 199, 208, 218
Tribune (Iowa newspaper) ... 150
Tricolor (flag) ... 575
Trillium, Purple ... 266
Trillium cernuum. See *Wake-robin, Nodding*.
Trillium nivale. See *Wake-robin, Snowy*.
Trillium sessile (trillium) ... 266
Trilliums ... 266
Trinidad (island), West Indies ... 697
Tripod, Motion-picture camera, Bear cub grasping ... ill. 103
Tristan da Cunha (islands) ... 142
Tristes (Argentine folk songs) ... 592
Trolling from pearling luggers: Thursday Island ... 63
Trollius europaeus. See *Butterball*.
Tropical fishes: Puerto Rico ... color plate XVI, page 736
Trough, Portable, Horses drinking from: Texas ... color plate XIII, page 459
Trousers, Turkish girl wearing ... ill. 766
Trout, Black-spotted ... 656
Trout fishing
  Colorado ... 415; ill. 421
  Rocky Mountains ... 97
Trucks
  Buenos Aires: Truck loading paper ... ill. 572
  Danzig boundary: Freight truck ... ill. 680
True Relation and Generall Historie (Capt. John Smith) ... 357; ill. 359
Trujillo Alto, Puerto Rico ... 706
Trypanosomes (blood parasites) ... 477
Tshanina Gongo (volcano), Belgian Congo ... 525
Tuamotus (islands), Pacific Ocean ... 42, 43
Tucumán, Congress of ... 562
Tuff (rock): Turkey ... 777, 792
Tufted deer
  Michie's ... 508; color plate XV, page 507
  Tibetan ... 508
Tulip festival: Pella, Iowa: Street scrubbing ... color plate XV, page 173
Tunnels, Railroad: Iran ... ill. 337
Turi, Johan Olafsson ... 669–670
  Photograph of ... ill. 670
Turi's Book of Lappland (Turi) ... 669, 670
Turkey ... 560
  Multicolored Cones of Cappadocia. 20 ills. in color from natural color photographs by Eric Matson. Dec. ... 769–800
  Where Early Christians Lived in Cones of Rock: A Journey to Cappadocia in Turkey Where Strange Volcanic Pinnacles Are Honeycombed With Hermit Cells and Monasteries. By John D. Whiting. 20 ills. in black and white, 20 ills. in color, 1 half-page map, Dec. ... 763–802
Turkey Point, Maryland ... 379, 386
Turkeybush: Great Barrier Reef ... 62
Turkoman Steppes ... 338
Turkomans: Iran ... 338
Turk's-cap cacti: Puerto Rico ... color plate XV, page 735
Turner Alley (studio of Grant Wood) ... 161
Turpentine ... 608, 624
Turtle, Loggerhead ... 365
Turtlehead (flower) ... 238; color plate VIII, page 239
  Pink ... 238
Tuscaloosa (cruiser) ... ill. 700
Tusks of African elephants, Weight of ... 539
Tuttle's comet ... 14
Tuxtla Mountains, Mexico ... 192, 194
Tuxtla Statuette ... 183–184, 213; ill. 188
Twenty Thousand Leagues Under the Sea (Verne) ... 632
Twinflower ... 676
"Two Boats" (resting place), Ascension Island ... 76
Two Brothers (peaks), Rio de Janeiro ... 283, 290; ill. 286; color plate IV, page 294
Tydings, Millard E. ... 386
Typee, Vale of: Marquesas Islands ... 39; ill. 49
Typee (Melville) ... 49
Typhus fever: Puerto Rico ... 705
Tyre (Sour, Levant States) ... 764
Tysfjord, Norway ... 666

U

Ua-Huka (island), Marquesas Islands ... 39
Ua-Pu (island), Marquesas Islands ... 39
Üçhisar, Turkey ... 779; ill. 784; color plate IX, page 793
Ultraviolet light ... 1, 6, 7
Ultraviolet rays ... 628, 634, 635
Umbrella, Plant leaf used as: Tres Zapotes, Mexico ... ill. 191
Ungern-Sternberg, (Baroness) Irina: Estonia: At Russia's Baltic Gate: War Often Has Ravaged This Little Nation Whose Identity Was Long Submerged in the Vast Sea of Russian Peoples. By Baroness Irina Ungern-Sternberg. 33 ills., 1 half-page map, Dec. ... 803–834
Union Club, San Juan, Puerto Rico ... 709
Union of South Africa ... 80
Union of Soviet Socialist Republics ... 560
Union Pacific Railway ... 182
Union Shipbuilding Company Docks, Baltimore ... ill. 392
United States
  Claims made in Antarctica by Lincoln Ellsworth ... 129, 131, 137
  See also *Colorado, Florida, Georgia, Iowa, Maryland, Montana, New Mexico, North Dakota, Texas, Virginia*, and *Washington, D. C.*
U. S. Army
  Camel pack trains used by ... 427
  Puerto Rico ... 697, 705
U. S. Bureau of Biological Survey ... 119, 485
U. S. Bureau of Customs ... 446
U. S. Bureau of Dairy Industry ... 629
U. S. Bureau of Entomology ... 628
U. S. Coast and Geodetic Survey ... 140
U. S. Coast Guard Service ... 142, 453
U. S. Customs Guard locking gate: Laredo, Texas ... ill. 426
U. S. Department of Agriculture ... 454, 712, 722, 725
  Biological specimens ... color plate II, page 610
  Quarantine agents ... color plate IV, page 434
U. S. Government Exhibit, New York World's Fair: Statue ... ill. 621
U. S. Immigration Service: Border patrols ... ill. 448, 449
U. S. Maritime Commission ... 62
U. S. National Academy of Sciences, Washington, D. C. ... 16
U. S. National Bureau of Standards ... 16, 620
U. S. National Museum, Washington, D. C. ... 184, 188
  Meteorites in ... ill. 29
U. S. National Park Service ... 439
U. S. Naval Academy, Annapolis ... 391; air view 384
U. S. Naval Air Base, Puerto Rico ... 698
U. S. Naval Observatory, Washington D. C. ... 16
  Astronomer measuring stars ... ill. 30
U. S. Naval Research Laboratory, Washington D. C. ... 5
U. S. Navy: Puerto Rico ... 697; air view 700; ill. 701; color plate II, page 714
U. S. Patents
  First ... 626, 632
  No. 2,115,886 ... 631
Universe ... 8, 31, 32
Universities and colleges
  Estonia ... 819–820, 834; ill. 823
  Iowa ... 160–161, 164; color plates I, page 151; II, page 152; XII, page 170
  Puerto Rico ... 712, 722, 728; ill. 709
Upper air, Studies of: Swedish Scientific Station, Abisko ... 668
Upper Iowa College, Fayette ... 161
Uppsala, Sweden ... 667
Uppsala, University of, Sweden ... 668, 674
Uranus (planet) ... 14, 16, 27
Urca (residential district), Rio de Janeiro ... color plate XVIII, page 316
Urca, Mount, Rio de Janeiro ... 283, 284, 290; color plates I, page 291; VI, page 296; XVIII, page 316
Urea manufactured synthetically ... 607
Ürgüp, Turkey ... 777, 779, 780; ill. 783; color plate XII, page 796
Uruguay (ship) ... 283, 564, 575; color plates II, page 578; III, page 579
Utes (Indians) ... 417
Uvularia grandiflora (bellwort) ... 266
Uvularia perfoliata. See *Bellwort*.
Uvularia sessilifolia (bellwort) ... 266

V

Vaca, Cabeza de ... 415, 427
Vaccine, Yellow fever: Preparation of ... 306; ill. 305
Vakini palm, Hat made of ... 39; ill. 53
Val Verde County, Texas ... 445
Valentia Island, Eire ... 139
Valenzuela, (Dr.) D. Juan ... ill. 211
Valga (Walk), Latvia-Estonia ... 807, 809
Vandermark's Folly (Herbert Quick) ... 144
Van Horn, Texas ... 428
Vanilla vines: Puerto Rico ... 722; ill. 723

Page

Variable stars ... 28
Variables (winds): Indian Ocean ... 80
Värnamo, Sweden ... 402
Varnish mixture used to impregnate cloth ... 618
Vatican City ... 677
Veado catingueiro (brown brocket) ... 492
Veado galheiro grande (South American marsh deer) ... 493
Veado mateiro (red brocket) ... 492
Veado pardo (red brocket) ... 492
Vega Baja, Puerto Rico ... 721
Veils
  Persian women no longer wear veils ... 327, 329; ill. 334, 335
  Turkish women wearing ... ill. 789
Velvet leaf ... 229; color plate III, page 228
Venders
  Buenos Aires ... ill. 570, 573; color plate VII, page 583
  Puerto Rico ... 702, 705
  Rio de Janeiro: Brush salesman ... ill. 300
Venice, Italy ... 559
Venite Laudamus Domino (chant) ... 428
Venus (planet) ... 14, 25
Vera Cruz (state), Mexico
  Carved stone box ... 210; ill. 194, 195, 196
  Clay masks and figures ... ill. 196, 204, 208, 216
  Colossal Head ... 183, 185, 192, 205, 206–207, 209, 218; ill. 185, 187
  Sacrificial block ... 211; ill. 194
  Stelae ... 203, 209–210, 213–214; ill. 197, 198, 200, 212, 217
  Stone stairway ... ill. 214
  Transportation ... 188; ill. 189, 206, 215, 217
  Tuxtla Statuette ... 183–184, 213; ill. 188
  Yokes ... ill. 204
Verbena, Prairie ... 240; color plate IX, page 241
Verbena bipinnatifida. See *Verbena, Prairie*.
Verbena family ... 240
Verbena hastata. See *Vervain, Blue*.
Verbenaceae. See *Verbena family*.
Verhoogen, (Dr.) Jean: We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eight Months' Study. By Dr. Jean Verhoogen. 28 ills., 1 two-thirds-page map, Oct ... 511–550
Vermifuge, Mexicans use peyote as ... 430
Verne, Jules ... 363, 632
Vernonia fasciculata. See *Ironweed*.
Versailles, France ... 559
Versailles, Treaty of ... 551, 677
Vervain, Blue ... 240
Vespucci, Amerigo ... 299
Vetch ... 249; color plate XIII, page 248
  Common ... 249
  Purple milk ... 247; color plate XII, page 246
Vetches ... 244
Vicia americana. See *Vetch*.
Vicia faba. See *Bean, Windsor*.
Vicia sativa. See *Vetch, Common*.
Victoria, Lake, Tanganyika-Uganda ... 511
Victoria Falls, Rhodesia ... duotone plate X, page 536
Victoria regia (plant) ... 299
Vidal, Emeric ... 574
Vidalitas (Argentine folk songs) ... 592
Villa, Pancho ... 415
Villa Acuña, Mexico ... 440, 459
Villalba, Puerto Rico ... 728
Villegaignon Island, Brazil ... 288, 289
Villiers, Alan ... 62
Vineyards: Iowa ... 172, 181, 182
"Vinylite" (plastic) ... 617
Vinyon (synthetic textile) ... 622
Viola pedata. See *Violet, Birdsfoot*.
Viola pedata bicolor. See *Violet, Two-color*.
Violaceae. See *Violet family*.
Violet
  Birdsfoot ... 231; color plate IV, page 230
  Two-color ... 231; color plate IV, page 230
Violet family ... 231
Viper's bugloss ... 236
Vira (brown brocket) ... 492
Virgin Islands, American ... 740
Virgin of Guadalupe: Mexico ... 723
Virgin of Montserrat, Legend of: Puerto Rico ... 723, 728
Virginia: Chesapeake Odyssey: An 18-foot Sailboat Follows the Course of Captain John Smith around This Spacious Bay of History, Commerce, Sea Food, and Nautical Lore. By John Maloney. 32 ills., 1 page map, Sept ... 357–392
Virginia bluebell ... 236; color plate VII, page 237
Virginia deer ... 489; ill. 468; color plate VI, page 490
Viru Street, Tallinn, Estonia ... ill. 810
Virunga Mountains, Africa ... 512, 513, 515; ill. 514, 518
Visor once worn by Persian women ... ill. 334, 335
Vistula Delta, Danzig ... 677
Vistula River, Poland-Danzig ... 551, 552, 677, 696
Volcanoes
  We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eights Months' Study. By Dr. Jean Verhoogen. 28 ills., 1 two-thirds-page map, Oct ... 511–550
  Craters, chimneys, and vents ... 526, 543; ill. 520, 547
  Geological changes caused by volcanic activity ... 512, 515, 524, 525
  Lava ... 511, 526, 543, 545, 550; ill. 517, 519, 546, 547
  "Shield" volcanoes ... 526; ill. 516
  Vegetation destroyed by volcanic activity ... 543; ill. 546
Voyages
  At Home on the Oceans: Whales and Sharks Make Exciting Neighbors for a Professor's Wife, Turned Able Seaman, On a Three-year Voyage Around the World. By Edith Bauer Strout. 54 ills., 1 map, July ... 33–86
  Anchorages ... 35–36, 51, 55, 57, 62, 63, 80; ill. 59, 60, 64, 71, 81
  Animals, birds, and fishes ... 33, 35–36, 38, 43, 47, 55, 56, 63, 65–66, 79, 81, 85; ill. 41, 43, 45, 46, 48, 67, 72, 83, 84
  Crew ... 33
  Food ... 38–39, 42–43, 47, 50, 80; ill. 54, 66, 67
  Natives ... 38–39, 42, 44, 47, 50; ill. 49, 50, 52, 53, 54, 56, 57
  Pets ... ill. 47
  Photographs of *Igdrasil* ... ill. 34, 35, 36, 37, 47, 59, 60, 64, 71, 76, 81
  Trade winds ... 34, 43, 63, 79
  Weather ... 33, 34–35, 43, 44, 47, 51, 53, 56–57, 62, 63, 80, 81, 86
  Chesapeake Odyssey: An 18-foor Sailboat Follows the Course of Captain John Smith around This Spacious Bay of History, Commerce, Sea Food, and Nautical Lore. By John Maloney. 32 ills., 1 page map, Sept ... 357–392

W

W. A. Sheaffer Pen Plant, Iowa ... 165–166
Wagner, Richard (composer) ... 691, 696
Wagon pulled by trained wapiti ... ill. 496
Wagon Wheel Gap, Colorado ... 417, 419
Wake-robin
  Nodding ... 266; color plate XXII, page 267
  Snowy ... 266; color plate XXII, page 267
Wakutu tribesman: Ruanda, Belgian Congo ... ill. 512
Waldemar IV (Danish king) ... 805
Waldemar the Victorious (Danish king) ... 803
Wallace, Henry A. ... 143
Wallace, Henry C. ... 143
Wallboard, Fireproof, made from plastics ... 619
Wallflower
  True ... 227
  Western ... 227; color plate II, page 226
Walrus ivory, Carved ... ill. 362
Walters Art Gallery, Baltimore, Maryland ... ill. 390
Wandering Jew (plant) ... 264
Wapello County, Iowa ... 179
Wapiti ... 88, 97, 98, 104, 485; ill. 117, 465, 470, 484, 496; color plates VII, page 95; IV, page 486
  Roosevelt ... 485
  Tule ... 485
War Clouds Over Danzig and Poland's Port (Gdynia). 8 ills. from photographs. Oct ... 551–558
Warm Springs, Georgia: Hospital ... 426
Warman, Cy (poet) ... 416
Warsaw, Poland ... 680
Warships: Puerto Rico ... air view 700; ill. 701; color plate II, page 714
Washington, George ... 378, 391
  Statue of: Buenos Aires ... 597
Washington, D. C.: Christening of *Yankee Clipper* ... 141
Washington Monument, Baltimore, Maryland ... ill. 390
Washington Monument, Washington, D. C. ... color plate VII, page 24
Watch tower: Rio Grande, Texas ... ill. 449
Water hyacinths
  Mexico ... 193
  St. Johns River, Florida ... ill. 36
Water lilies: San Juan, Puerto Rico ... color plate XI, page 731
Waterfalls
  New Zealand ... 53, 55
  Victoria Falls, Rhodesia ... duotone plate X, page 536
Waterfront: Danzig ... ill. 552, 553, 555
Waterloo, Belgium ... 559
Waterloo, Iowa ... 174, 177
Waterloo, Missouri ... 164
Watermelons, Darkies eating: Baltimore dock scene ... ill. 387

Page

Wattle (throat pendant of moose)....88, 104; color plate III, page 91
Watussi (tribe): Ruanda, Belgian Congo....512, 544; ill. 548
We Keep House on an Active Volcano: After Flying to Study a Spectacular Eruption in Belgian Congo, a Geologist Settles Down on a Newborn Craterless Vent for Eight Months' Study. By Dr. Jean Verhoogen. 28 ills., 1 two-thirds-page map, Oct. 511–550
Weather Bureau: Puerto Rico 706
Weaving with pandanus, Marquesan woman 39
Weber, Walter A.: Antlered Majesties of Many Lands. 23 ills. in color from paintings by Walter A. Weber. Oct. 479–510
Webster County, Iowa 179
Webster's New International Dictionary of the English Language, Paintings of solar spectrum in 16
Weddell Sea, Antarctica....129, 130
Wedding invitations, Estonian giving....ill. 827
Weiant, (Dr.) C. W....190, 201, 205; ill. 190, 196, 211
Weiant, (Mrs.) C. W....190, 203; ill. 190, 211
Weidlein, (Dr.) E. R. 632
Weka (bird): New Zealand 56
Wellington, New Zealand 57
Wells, Carveth....641, 654, 656
Wells Cathedral....744, 761; gravure plate VI, page 750
West Amana, Iowa 160
West Branch, Iowa 143
West Indies....33–34, 86
Heart of a Hemisphere: Of Vital Importance is the Area Portrayed in The Society's New Map of Mexico, Central America, and the West Indies. Text accompanying special map supplement in colors. 1 ill., Dec. 739–740
West Prussia, Germany 551
Western Rift Valley, Africa....512, 513, 514, 515, 518
Western Union College, Le Mars, Iowa 161
Westminster Abbey....742, 744
Rose window....gravure plate XVI, page 760
"Westward" (mural in Iowa Capitol)....color plate XIII, page 171
"Wet" (smuggled) cattle: Texas....437, 453; color plate VII, page 437
Wetmore, (Dr.) Alexander....193, 194, 217, 218, 526; ill. 190, 211, 217
Whalebone articles, Carved....ill. 362
Whalers, New England: Articles carved by....ill. 362
Whales, Bay of: Antarctica....129, 131
Whales, Finback: Pacific Ocean....38; ill. 45
Whangaroa, New Zealand 51
Wheat exported from Argentina 576
Where Early Christians Lived in Cones of Rock: A Journey to Cappadocia in Turkey Where Strange Volcanic Pinnacles Are Honeycombed With Hermit Cells and Monasteries. By John D. Whiting. 20 ills. in black and white, 20 ills. in color, 1 half-page map, Dec. 763–802
Whetstone, Swedish boy sharpening scythe with....ill. 400
Whey, Candy made of....ill. 629
Whistles, Testing: Aluminum kettles....color plate X, page 634
Whitby, England 761
Whitby Abbey....761; gravure plate XIII, page 757
"White ants" (termites): Australia....63; ill. 64, 65
"White dwarfs" (stars) 28
White Pine Hollow Preserve, Iowa 176
Whitelock, Captain 372
Whitelock, "Mother" 371
Whitetail deer. See *Virginia deer*.
Whiting, John D.
Photographs of....ill. 783, 787
Where Early Christians Lived in Cones of Rock: A Journey to Cappadocia in Turkey Where Strange Volcanic Pinnacles Are Honeycombed With Hermit Cells and Monasteries. By John D. Whiting. 20 ills. in black and white, 20 ills. in color, 1 half-page map, Dec. 763–802
Whittier, (Dr.) E. O. 622
Wideawake Plain, Ascension Island 85
"Wideawakes" (sooty terns): Ascension Island....85; ill. 83
Wild Cat Den State Park, Iowa 166
Wild indigo
Blue....244; color plate XI, page 245
Yellow....244; color plate XI, page 245
White 244
Wildflowers: Rocky Mountains....88, 100
Wilkins, (Sir) Hubert: Photograph of....ill. 133
Wilkinson, Norman: Cathedrals of England: An Artist's Pilgrimage to These Majestic Monuments of Man's Genius and Faith. By Norman Wilkinson. 3 ills. in black and white, 16 ills. in gravure from dry-point engravings by the author, Dec. 741–762
William the Conqueror 744
William Penn College, Oskaloosa, Iowa 161

Page

Williams, Maynard Owen
Buenos Aires: Queen of the River of Silver. By Maynard Owen Williams. 22 ills. in black and white, 24 ills. in color, 1 half-page map, Nov....561–600
Buenos Aires—Metropolis of the Pampas. 24 ills. in color from natural color photographs by Luis Marden and Maynard Owen Williams. Nov. 577–600
Dressed as King Neptune....color plate II, page 578
Wilno, Lithuania 805
Wilson, James 143
Wilson, Woodrow....371, 378
Winchester Cathedral....744; gravure plate II, page 746
"Windflower." See *Anemone*.
Windmill propeller used in generating electricity....ill. 178
Windmills: Danzig 696
Wines
Named for localities in Europe 559
Primrose wine 234
Wings Over Nature's Zoo in Africa. 20 ills. in duotone from photographs by Reginald A. Bourlay, Oct. 527–542
Winnebago Indians 176
Winslow, Arizona: Meteorite crater near 13
Wisconsin, Territory of 166
Wisherd, Edwin L.: Puerto Rico Polychromes. 23 ills. in color from natural color photographs by Edwin L. Wisherd. Dec. 713–736
Witch hazel (shrub)....251; color plate XIV, page 250
Witch hazel family 251
Wittmer, (Mrs.) Arthur....ill. 42
Woburn Abbey: Estate of Duke of Bedford 504
Wolf, Lapland 665
Wolf hunters: Lapps 665
Woman streetcar conductor: Tallinn, Estonia....ill. 833
Women coaling ship: Estonia....ill. 819
Women's National Defense League: Estonia 834
Wood, Grant (artist) 161
"Wood alcohol" 607
Wood betonies 238
Wood betony, Yellow....240; color plate IX, page 241
Wood hauled by reindeer ox....ill. 643
Wooden shoes: Iowa....color plate IX, page 167
Woodfield Fish and Oyster Company, Galesville, Maryland 356
Woodmint 242
Woodsorrel, Violet....231; color plate IV, page 230
Wool....575, 601
Synthetic, made from milk....601, 604
Woolen mills: Sweden....ill. 412
Wordsworth, William 235
World That Rims the Narrowing Atlantic: Latest Ten-color Map Supplement Shows Four Continents and New Transatlantic Air Routes Which Make This Ocean Only One Day Wide. By James M. Darley. 1 ill., July....139–142
World War....70, 75, 551, 557, 560, 608, 677
World War Memorial, Cedar Rapids, Iowa....160, 161
World's Fair, St. Louis: Photograph of doe and twin fawns exhibited 475
Worms, Germany 559
Worms, Diet of 559
Wren, (Sir) Christopher 743
Wyatt Earp (ship)....129, 134, 138; ill. 130, 138
Wye Island, Maryland....air view 389
Wyoming (battleship)....color plate II, page 714

X

Xerxes 336
Xerxes' Palace, Persepolis, Iran 336

Y

Yacht Club, Buenos Aires....color plate III, page 579
Yacht Club, San Juan 709
Yankee Clipper (airplane)....ill. 141
Officer checking course....ill. 2
Yarey palms: Puerto Rico....color plate VII, page 710
Mats and baskets made from....color plate V, page 717
Yarn for rugs, Dyed: Iran....color plate IV, page 342
"Yellow dwarfs" (stars) 25
Yellow fever, Jungle....305, 306
Yellow fever sanitation and research: Rio de Janeiro 295, 305–306; ill. 305
Yellow Fever Service, Rio de Janeiro 306
Yellow star grass....268; color plate XXIII, page 269
Yellowstone National Park....101, 113, 114, 476, 477, 486
Bison....color plates XIV, page 110; XV, page 111
Wapiti....ill. 484
Yerba maté: Argentina....586–587; color plates VIII, page 584; XI, page 595
Yerkes Observatory, Williams Bay, Wisconsin 28
Yezd, Iran 337
Yezd-i-Khast, Iran....337; ill. 350
Ylang ylang tree: Puerto Rico 722

	Page
Yokes, Carved stone: Vera Cruz expedition	ill. 204
York, England	761
York Minster (cathedral)	761; gravure plate X, page 754
York River, Virginia	357, 359, 363
Yorkshire, England	761
Yorktown, Virginia: Battery	ill. 367
Yorktown (aircraft carrier)	360
Yorktown, Siege of	358, 359
"You Can't Marry Ten Pretty Girls" (song)	586
Young, Brigham	182
Y. M. C. A.: San Juan, Puerto Rico	705
YPF (government oil company): Argentina	600
Ysleta, Texas	428
Ytterbium group of earths	560
Ytterby, Sweden	560
Yttrium (element)	560
Yucca (plant): Texas	color plate IX, page 455
Yukon River, Alaska-Canada: Caribou	ill. 466

Z

	Page
Zambas (Argentine folk songs)	592
Zambezi River, Africa	duotone plate X, page 536
Zapata, Texas	454
Zapata County, Texas	429, 454
Zebras: Tanganyika	duotone plate XIV, page 540
Zebu cattle: Mexico	205; ill. 215
Zeki Khan	350
Zilve, Turkey	779, 792
Children of	ill. 789
Zinda River, Iran	334
"Zodiacal light"	color plate VI, page 22
Zoo: Buenos Aires	591–592; color plate XII, page 596
Children riding llamas	ill. 575
Zoppot, Danzig	554, 556, 696; ill. 693
Zoroastrians	337
Zuider Zee, Netherlands	696
Zululand, Union of South Africa	80

XUM